

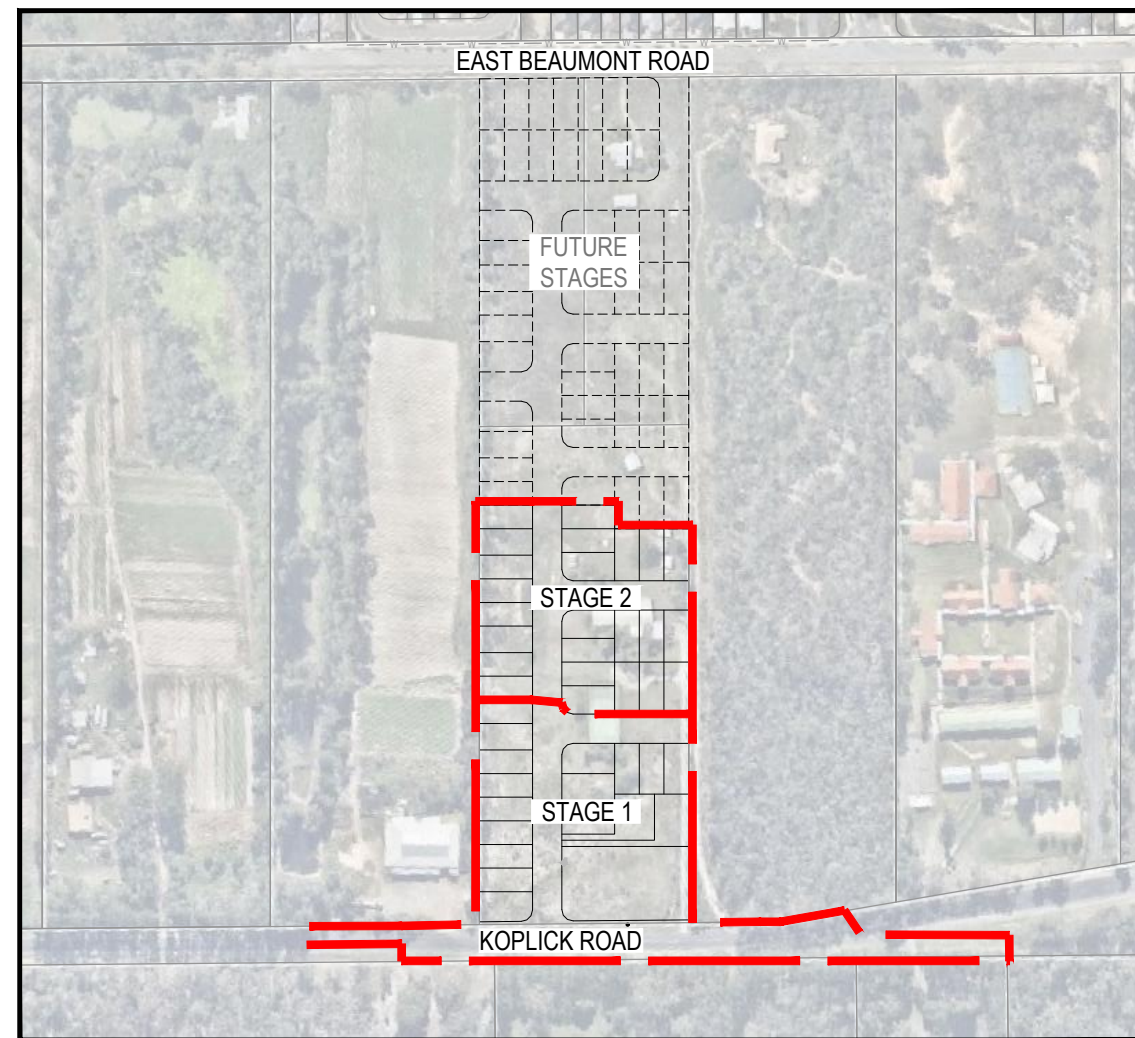
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)

87 - 93 KOPLICK ROAD, PARK RIDGE
FOR 'KOPLICK DEVELOPMENTS PTY LTD'

DRAWING LIST

18-0114-100	COVER PLAN
EARTHWORKS, ROADWORKS AND DRAINAGE	
18-0114-101	BULK EARTHWORKS LAYOUT PLAN
18-0114-102	BULK EARTHWORKS SECTIONS AND DETAILS PLAN
18-0114-103	ROADWORKS AND DRAINAGE LAYOUT PLAN
18-0114-104	SURVEY SETOUT AND KERB TYPES LAYOUT PLAN
18-0114-105	ROAD 1 LONGITUDINAL SECTION
18-0114-106	ROAD 1 CROSS SECTIONS
18-0114-107	ROAD 6 LONGITUDINAL SECTION AND CROSS SECTIONS
18-0114-108	ROAD 7 LONGITUDINAL SECTION AND CROSS SECTIONS
18-0114-109	DRIVEWAY 01 LONGITUDINAL SECTION AND TYPICAL CROSS SECTION
18-0114-110	KOPLICK ROAD LIP 1 LONGITUDINAL SECTION AND CROSS SECTIONS
18-0114-111	KOPLICK ROAD LIP 2 LONGITUDINAL SECTION AND CROSS SECTIONS
18-0114-112	KOPLICK ROAD LIP 3 LONGITUDINAL SECTION AND CROSS SECTIONS
18-0114-113	INTERSECTION AND DRIVEWAY DETAILS LAYOUT PLAN
18-0114-114	SIGNS AND LINEMARKING LAYOUT PLAN
18-0114-115	STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN
18-0114-116	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1
18-0114-117	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2
18-0114-118	STORMWATER DRAINAGE CALCULATION TABLES SHEET 1
18-0114-119	STORMWATER DRAINAGE CALCULATION TABLES SHEET 2
18-0114-120	STORMWATER DRAINAGE STRUCTURE DETAILS SHEET 1
18-0114-121	STORMWATER DRAINAGE STRUCTURE DETAILS SHEET 2
18-0114-122	STORMWATER DRAINAGE STRUCTURE DETAILS SHEET 3 - DRAWING REMOVED
STORMWATER QUALITY	
18-0114-200	BIO RETENTION / DETENTION BASIN LAYOUT PLAN
18-0114-201	BIO RETENTION / DETENTION BASIN TYPICAL SECTIONS
18-0114-202	BIO RETENTION / DETENTION BASIN TYPICAL NOTES AND DETAILS
SEWERAGE AND WATER RETICULATION	
18-0114-300	SEWERAGE RETICULATION INTERNAL WORKS LAYOUT PLAN
18-0114-301	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1
18-0114-302	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 2
18-0114-303	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 3
18-0114-304	WATER RETICULATION INTERNAL WORKS LAYOUT PLAN
EROSION AND SEDIMENT CONTROL	
18-0114-400	CONCEPT EROSION AND SEDIMENT CONTROL LAYOUT PLAN

External sewer plan nos 600-605



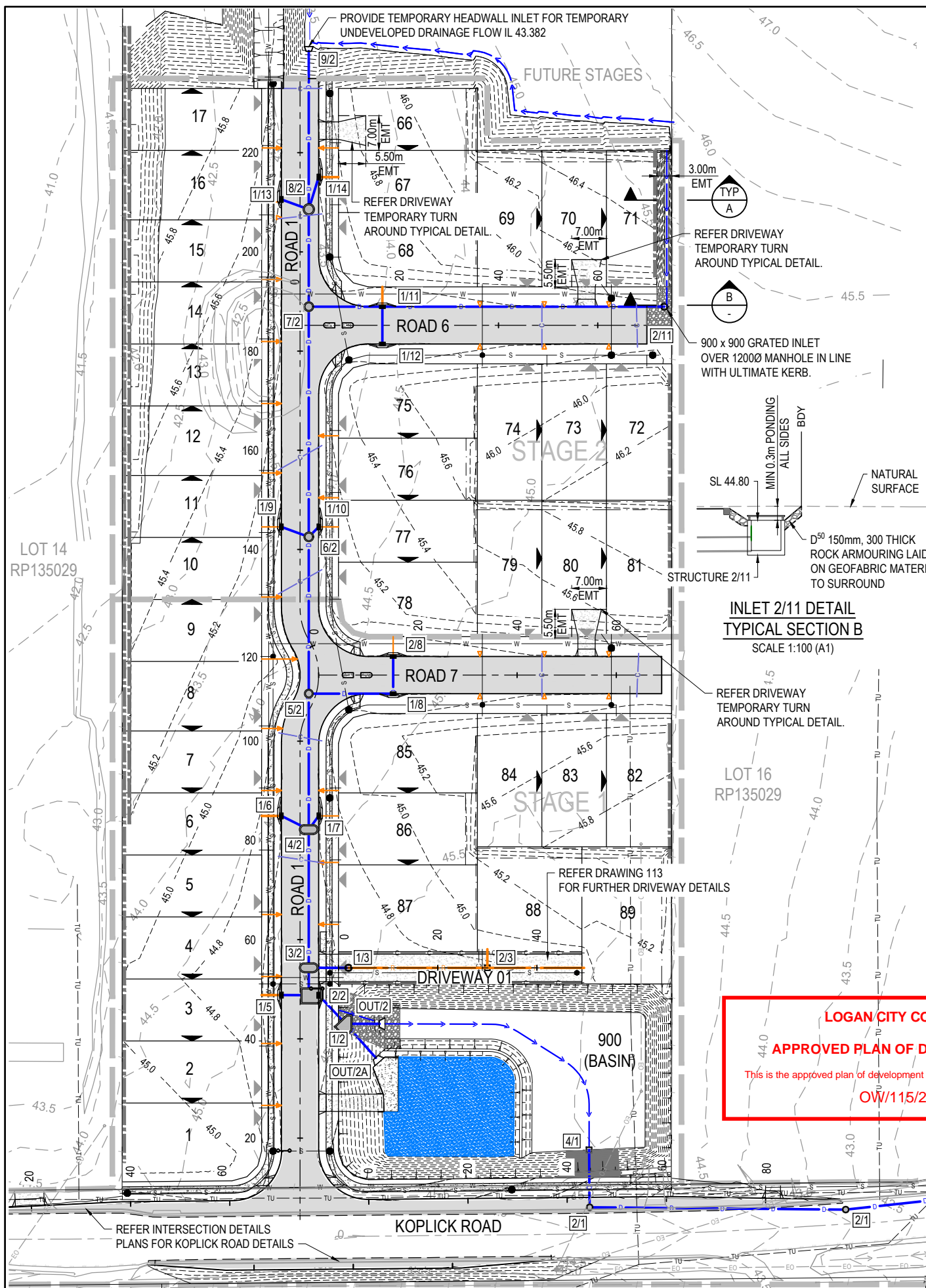
LOCALITY PLAN
SCALE 1:2000 (A1)
SCALE 1:4000 (A3)

PROJECT INFORMATION SUMMARY:
No. OF LOTS = 41
AREA OF SITE = 2.4 ha
RP DESCRIPTION LOT 15 ON RP 899708 LOT 100 ON SP 181808 LOT 101 ON SP 181808
DATUM LEVEL AND LOCATION P.S.M. 153245 RL 42.221 AHD LOCATED E:2153.465 N:4999.305
LOCAL AUTHORITY: LOGAN CITY COUNCIL
COUNCIL REFERENCE NUMBER: COM/17/2018

NOTE: THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH: - LANDSCAPE ARCHITECT'S PLANS - ELECTRICAL, COMMUNICATIONS AND GAS CONSULTANT'S PLANS - SAFETY IN DESIGN REPORT

LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
This is the approved plan of development for Development Application
OW/115/2019

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
1	28-06-19	RD	RD	ORIGINAL ISSUE	RD	NOT FOR CONSTRUCTION	1:2500 50 0 50 100 A1 1:5000	KOPLICK DEVELOPMENTS PTY LTD	PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)	COVER PLAN		
2	03-09-19	RD	RD	DRAWING 122 ADDED	DESIGN							
3	09-09-20	RD	RD	STAGE BOUNDARY AND LAYOUT AMENDED	RD							
APPROVED TROY SCHULTZ RPEQ 20631 FOR AND ON BEHALF OF PEAKURBAN PTY LTD							ENQUIRIES@PEAKURBAN.COM.AU	ASSOCIATED CONSULTANT GOODROCK PROPERTY PH: 0423 557 882	87 - 93 KOPLICK ROAD PARK RIDGE	PROJECT No. 18-0114	DRAWING No. 100	REVISION 3

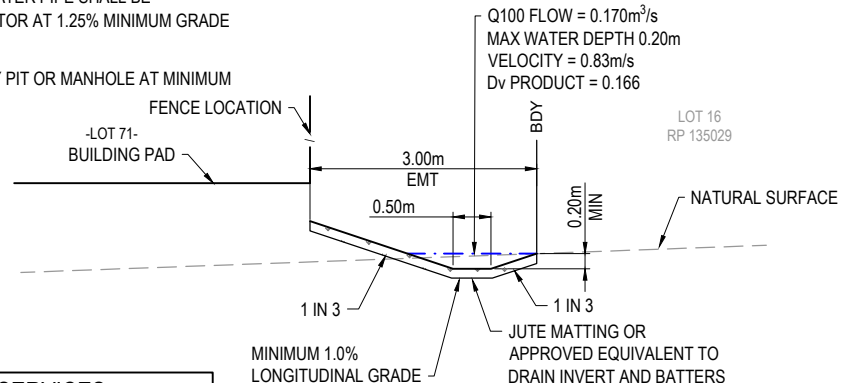
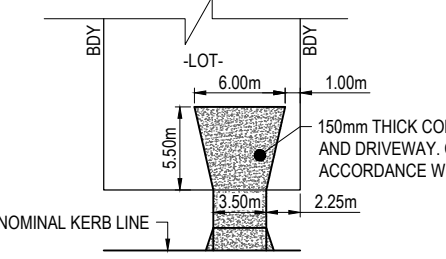
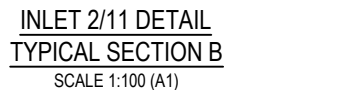


ROADWORKS AND DRAINAGE NOTES

- ALL WORKS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
- NOTWITHSTANDING THE EXTENTS OF CUTTING AND FILLING SHOWN ON DRAWINGS, THE SUPERINTENDENT RESERVES THE RIGHT TO ADJUST THE FINISHED SURFACE LEVELS AND EARTHWORKS EXTENTS THROUGH WRITTEN DIRECTION.
- NEW CONSTRUCTION SHALL BE NEATLY JOINED TO EXISTING FORMATION. WHERE REQUIRED, THE EXISTING FORMATION SHALL BE SAW CUT IN ACCORDANCE WITH IPWEAQ STD DRG RS-170. LEVELS AND GRADIENTS AT CONNECTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE A SMOOTH CONNECTION.
- THE CONTRACTOR SHALL UNDERTAKE ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007 AND LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
- THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH THE SUBGRADE TEST RESULTS NECESSARY FOR ALL PAVEMENT DESIGN.
- THE CONTRACTOR SHALL ENSURE A MINIMUM OF 75mm TOPSOIL TO ALL VERGE AND BATTER AREAS (AND STABILISATION AS ORDERED)
- THE CONTRACTOR SHALL INSTALL ALL FOOTPATH AND PRAM RAMP IN COMPLIANCE WITH THE AUTHORITY'S STANDARD DRAWINGS. PRAM RAMP ARE TO BE LOCATED CLEAR OF DRAINAGE GULLY PITS AND FUTURE DRIVEWAY POSITIONS INDICATED ON THE LAYOUT PLANS.
- THE CONTRACTOR SHALL INSTALL SUBSOIL DRAINS UNDER ALL KERBS AS REQUIRED BY THE LOCAL AUTHORITY'S STANDARDS.
- THE CONTRACTOR SHALL ENSURE THAT ALL RETAINING WALL SUBSOIL DRAINS ARE TO CONNECT TO EITHER KERB ADAPTORS, KERB SUBSOIL DRAINS OR STORMWATER DRAINAGE STRUCTURES. CONTRACTOR TO DEMONSTRATE TO SUPERINTENDENT THAT SUITABLE CONNECTIONS HAVE BEEN PROVIDED FOR ALL WALLS.
- ALL STORMWATER DRAINAGE MATERIALS, BEDDING, JOINTING AND STEP IRON REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITIES STANDARD DRAWINGS, METHODS AND SPECIFICATIONS.
- THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY. THE CONTRACTOR SHALL ASSESS THE SUITABILITY OF MACHINERY USED ON SITE AND THE ANTICIPATED CONSTRUCTION LOADS, AND UPGRADE THE PIPE CLASSES IF NECESSARY IN ACCORDANCE WITH AS3725-2007.
- THE TERM D_{50} DOCUMENTED ON THE DRAWINGS, IN RELATION TO ROCK ARMORING, CORRESPONDS TO THE REQUIRED MEDIAN DIAMETER OF THE PLACED ROCKS. THE ROCKS USED SHALL NOT VARY IN SIZE BY +/- 30% OF THE PROPOSED D_{50} SIZE.
- THE CONTRACTOR SHALL INSTALL A ROOFWATER CONNECTION TO EACH PROPERTY BY ONE OF THE FOLLOWING METHODS, AS SHOWN ON THE LAYOUT PLAN:
 - ONE ROOFWATER KERB ADAPTOR 500mm FROM THE DOWNSTREAM BOUNDARY (UNLESS SHOWN ON A DIFFERENT ALIGNMENT). WHERE THERE IS A CONCRETE FOOTPATH, A ROOFWATER PIPE SHALL BE INSTALLED FROM THE PROPERTY BOUNDARY CONNECTED TO THE KERB ADAPTOR AT 1.25% MINIMUM GRADE IN ACCORDANCE WITH COUNCIL'S STANDARDS.
 - ONE 150Ø ROOFWATER PIPE CONNECTED TO PROPOSED STORMWATER GULLY PIT OR MANHOLE AT MINIMUM 1.0% GRADE WITH 1.0m COVER.

LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED ROAD CONTROL LINE
- EXISTING ROAD CROWN
- PROPOSED KERB INVERT LINE
- PROPOSED EDGE OF BITUMEN
- PROPOSED KERB TRANSITION LOCATION
- PROPOSED CONCRETE PATH AND PRAM RAMP
- PROPOSED NEW ROAD PAVEMENT
- INDICATIVE DRIVEWAY LOCATION
- ZERO LOT BOUNDARY
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED DRAINAGE SWALE
- EXISTING DRAIN
- PROPOSED ROOFWATER KERB ADAPTOR
- PROPOSED ROOFWATER KERB ADAPTOR WITH PIPE CONNECTION TO ALLOTMENT
- PROPOSED AREA OF FILTER MEDIA
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED SEWERAGE MAIN
- PROPOSED WATER MAIN
- PROPOSED WATER CONDUIT
- EXISTING ELECTRICAL CABLE O/H
- EXISTING TELSTRA U/G

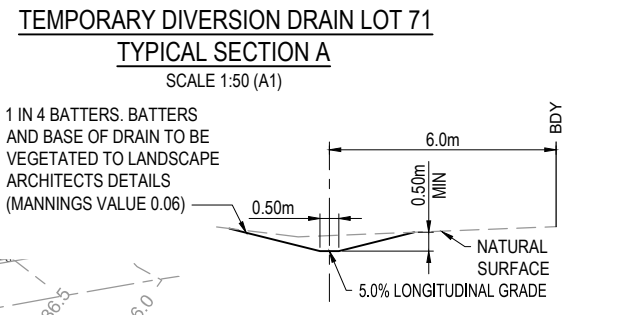


WARNING! - EXISTING SERVICES
 EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLE
- TELECOMMUNICATIONS CABLES

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

LOGAN CITY COUNCIL
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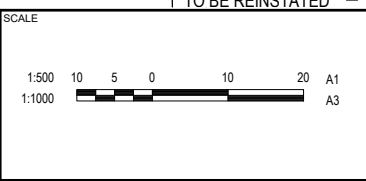


REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.08.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	TEMPORARY TURN AROUNDS, TYPICAL SECTIONS AND OUTLET
3	31.10.19	RD	RD	BASEIN AND DIVERSION DRAIN LOT 71 AMENDED, TURN AROUND ADDED TO LOT 88
4	09.09.20	RD	RD	LAYOUT NETWORK AND BASIN AMENDED
5	19.10.20	RD	RD	DRIVEWAY 01 SERVICES

NOT FOR CONSTRUCTION

DESIGN APPROVED TROY SCHULTZ RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT: **KOPLICK DEVELOPMENTS PTY LTD**



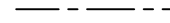







ASSOCIATED CONSULTANT: GOODROCK PROPERTY PH: 0423 557 882

PROJECT NAME: **PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)**

87 - 93 KOPLICK ROAD PARK RIDGE

DRAWING TITLE		
ROADWORKS AND DRAINAGE LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
18-0114	103	5

LEGEND

-  PROPOSED AREA OF WORKS/STAGE BOUNDARY
-  PROPOSED NEW ROAD PAVEMENT
-  PROPOSED ROAD CONTROL LINE
-  PROPOSED MOUNTABLE KERB AND CHANNEL IPWEAQ TYPE M3
-  PROPOSED BARRIER KERB AND CHANNEL IPWEAQ TYPE B1' (450 CHANNEL)
-  PROPOSED MOUNTABLE KERB ONLY IPWEAQ TYPE SM3
-  PROPOSED KERB TRANSITION LOCATION
-  PROPOSED CONCRETE PATH AND PRAM RAMP
-  INDICATIVE DRIVEWAY LOCATION
-  ZERO LOT BOUNDARY

CONTROL LINE SETOUT - ROAD 1							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2025.837	4990.239	0°00'00.00"			
TC	99.915	2025.837	5090.154	0°00'00.00"			
IP 2	103.204	2025.837	5093.527		R = 12.050	6.578	31°16'43.62"
CC	106.494	2027.589	5096.410	31°16'43.62"			
IP 3	114.000	2031.926	5103.549		R = -13.750	15.013	62°33'27.23"
CC	121.506	2027.589	5110.689	328°43'16.39"			
IP 4	124.795	2025.837	5113.572		R = 12.050	6.578	31°16'43.62"
CT	128.085	2025.837	5116.945	0°00'00.00"			
TC	242.294	2025.837	5231.154	0°00'00.00"			

CONTROL LINE SETOUT - ROAD 6				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	2025.837	5174.049	90°00'00.00"
IP 2	74.915	2100.752	5174.049	90°00'00.00"

CONTROL LINE SETOUT - ROAD 7				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	2029.587	5103.549	90°00'00.00"
IP 2	71.149	2100.736	5103.549	90°00'00.00"

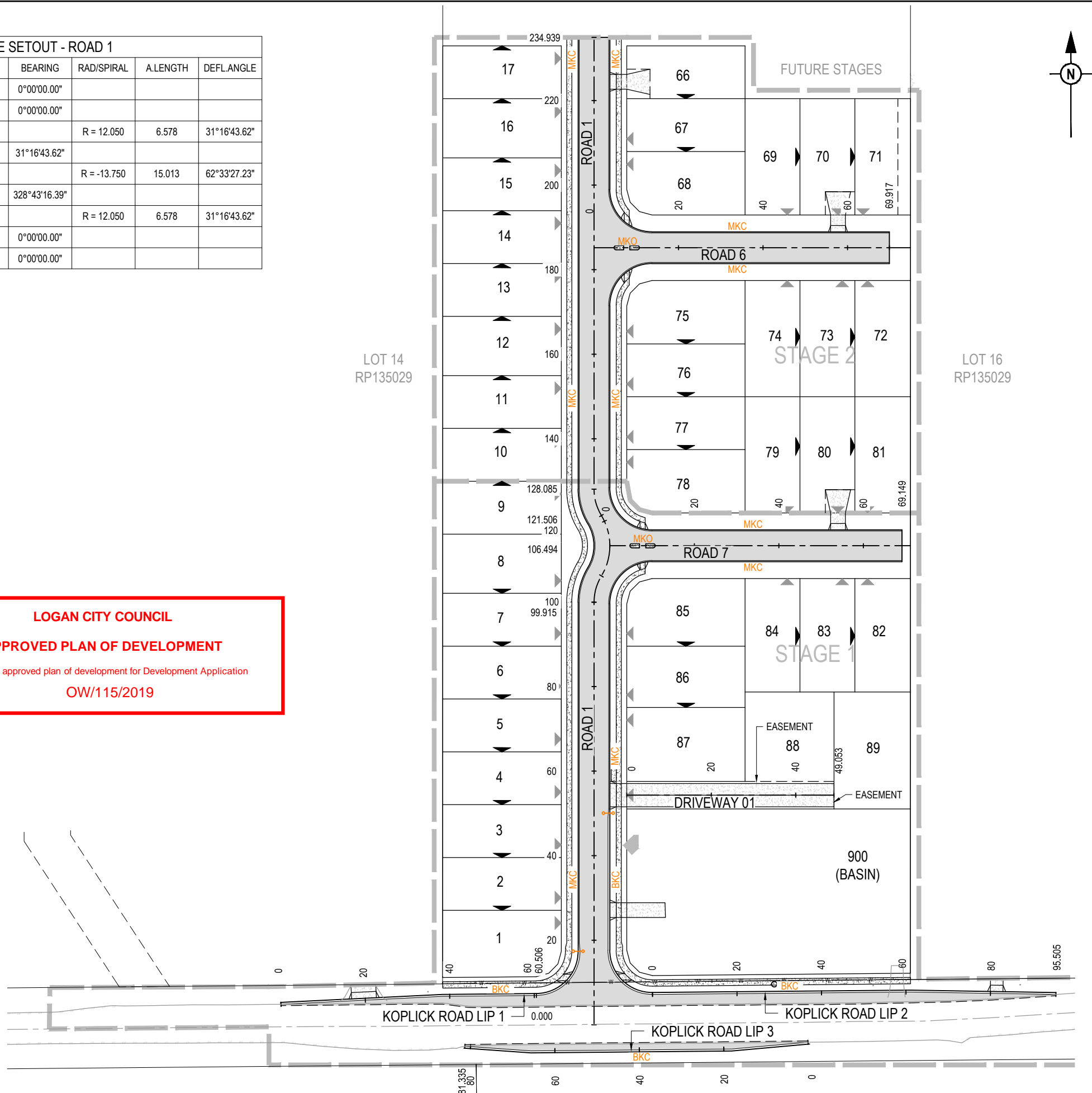
CONTROL LINE SETOUT - DRIVEWAY 01				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	2033.587	5044.549	90°00'00.00"
IP 2	49.053	2082.640	5044.549	90°00'00.00"

CONTROL LINE SETOUT - KOPLICK ROAD LIP 1				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	1951.725	4995.074	87°11'10.04"
IP 2	38.363	1990.042	4996.958	
IP 3	60.506	2012.184	4997.163	89°28'10.00"

CONTROL LINE SETOUT - KOPLICK ROAD LIP 2				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	2039.684	4997.417	89°28'10.00"
IP 2	61.076	2100.757	4997.983	
IP 3	95.505	2135.182	4997.406	90°57'34.86"

CONTROL LINE SETOUT - KOPLICK ROAD LIP 3				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	2076.491	4986.108	264°53'52.32"
IP 2	18.193	2058.370	4984.490	
IP 3	65.648	2010.917	4984.050	
IP 4	81.335	1995.270	4985.156	274°02'31.43"

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1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	KOPLICK ROAD LIP 3
3	31.10.19	RD	RD	ISLAND KERB TYPE AMENDED
4	09.09.20	RD	RD	LAYOUT AMENDED

NOT FOR CONSTRUCTION

DRAWN: RD
 DESIGN: RD
 APPROVED: TROY SCHULTZ
 RPEQ 20631
 FOR AND ON BEHALF OF PEAKURBAN PTY LTD



SCALE: 1:500, 1:1000
 CLIENT: KOPLICK DEVELOPMENTS PTY LTD
 ASSOCIATED CONSULTANT: GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME: PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
 PARK RIDGE

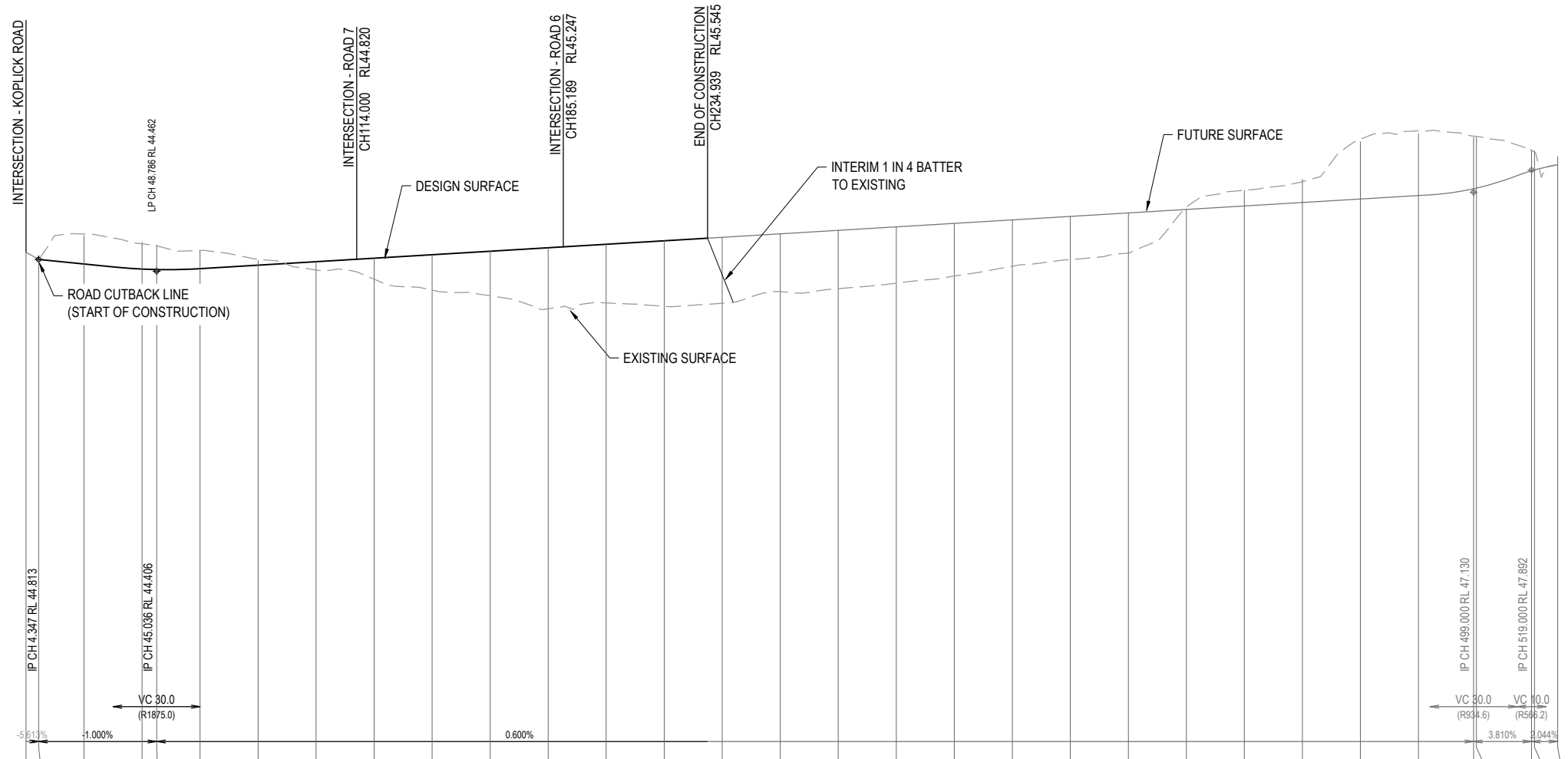
DRAWING TITLE: SURVEY SETOUT AND KERB TYPES LAYOUT PLAN
 PROJECT No: 18-0114
 DRAWING No: 104
 REVISION: 4

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 1	URBAN ACCESS ROAD	5.9 x 10 ⁵	3	35mm	150mm	100mm	100mm	385mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

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DATUM RL 27.0

STATION	CUT (-) / FILL	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	EXISTING SURFACE	CHAINAGES	HORIZONTAL CURVES
0.000	0.000			45.057	45.057	0.000	
4.347	0.000			44.813	44.813	4.347	
20.000	-1.024	44.569	44.569	44.656	45.680	20.000	
40.000	-0.858	44.396	44.396	44.483	45.340	40.000	
45.036	-0.802	44.379	44.379	44.466	45.268	45.036	
60.000	-0.616	44.409	44.409	44.496	45.112	60.000	
80.000	-0.193	44.529	44.529	44.616	44.809	80.000	
100.000	0.300	44.649	44.769	44.736	44.436	100.000	R12.050-13.750
120.000	0.734	44.769	44.769	44.856	44.122	120.000	
140.000	1.228	44.889	44.889	44.976	43.748	140.000	
160.000	1.546	45.009	45.009	45.096	43.550	160.000	
180.000	2.117	45.129	45.129	45.216	43.099	180.000	
200.000	2.032	45.249	45.249	45.336	43.304	200.000	
220.000	2.268	45.369	45.369	45.456	43.188	220.000	
240.000	2.286	45.489	45.489	45.576	43.290	240.000	
260.000	2.002	45.609	45.609	45.696	43.664	260.000	
280.000	2.019	45.729	45.729	45.816	43.797	280.000	
300.000	1.950	45.849	45.849	45.936	43.985	300.000	
320.000	1.824	45.969	45.969	46.056	44.232	320.000	
340.000	1.607	46.089	46.089	46.176	44.569	340.000	
360.000	1.495	46.209	46.209	46.296	44.801	360.000	
380.000	1.397	46.329	46.329	46.416	45.019	380.000	
400.000	-0.071	46.449	46.449	46.536	46.607	400.000	
420.000	-0.531	46.569	46.569	46.656	47.186	420.000	
440.000	-0.706	46.689	46.689	46.776	47.482	440.000	
460.000	-2.055	46.809	46.809	46.896	48.951	460.000	
480.000	-2.219	46.929	46.929	47.016	49.235	480.000	
499.000	-1.803	47.163	47.163	47.250	49.053	499.000	
500.000	-1.768	47.186	47.186	47.273	49.041	500.000	
519.000	-0.695	47.783	47.783	47.870	48.955	519.000	
520.000	-0.607	47.811	47.811	47.898	48.905	520.000	
528.007	-0.000	47.811	47.811	48.076	48.076	528.007	

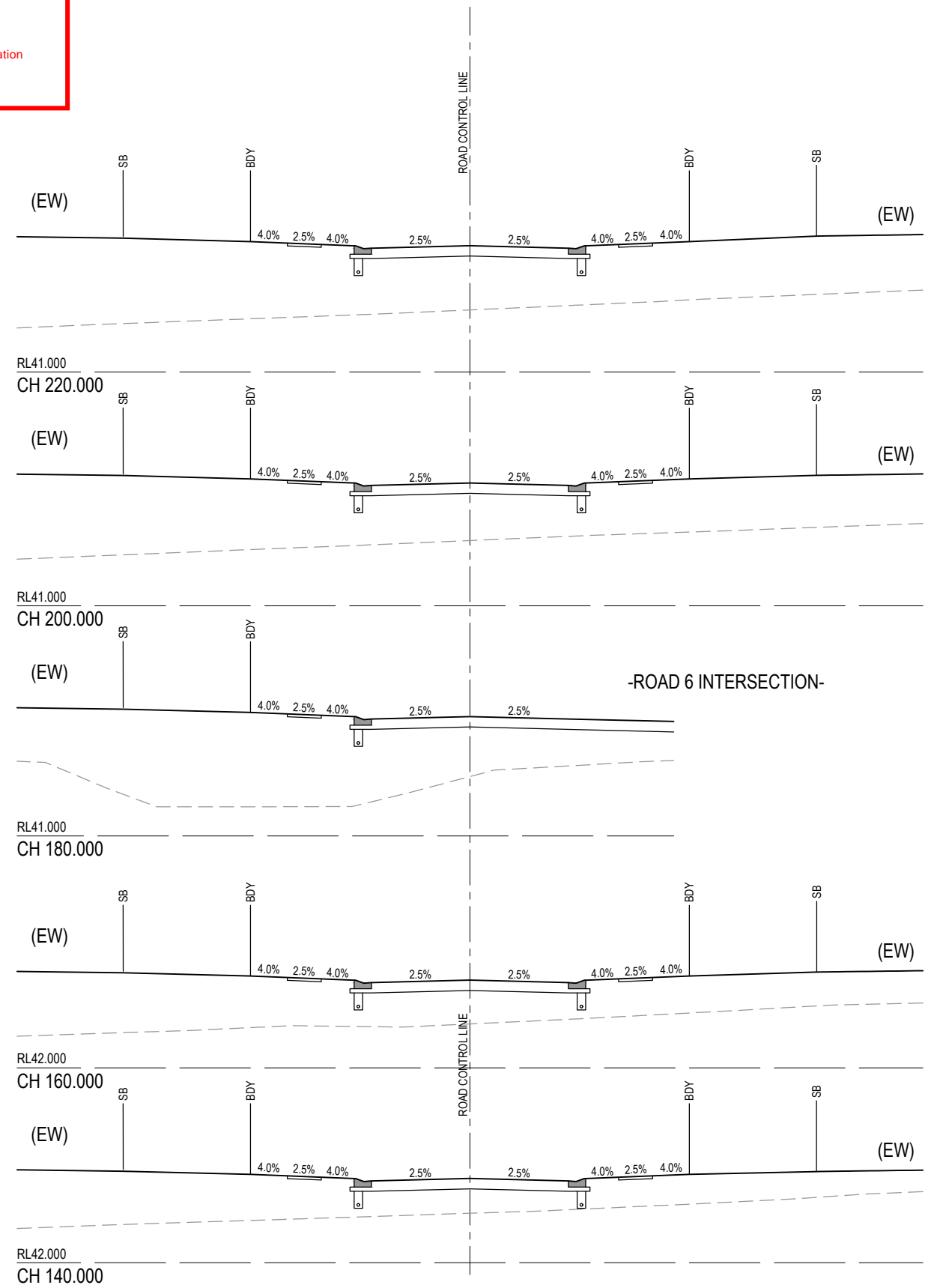
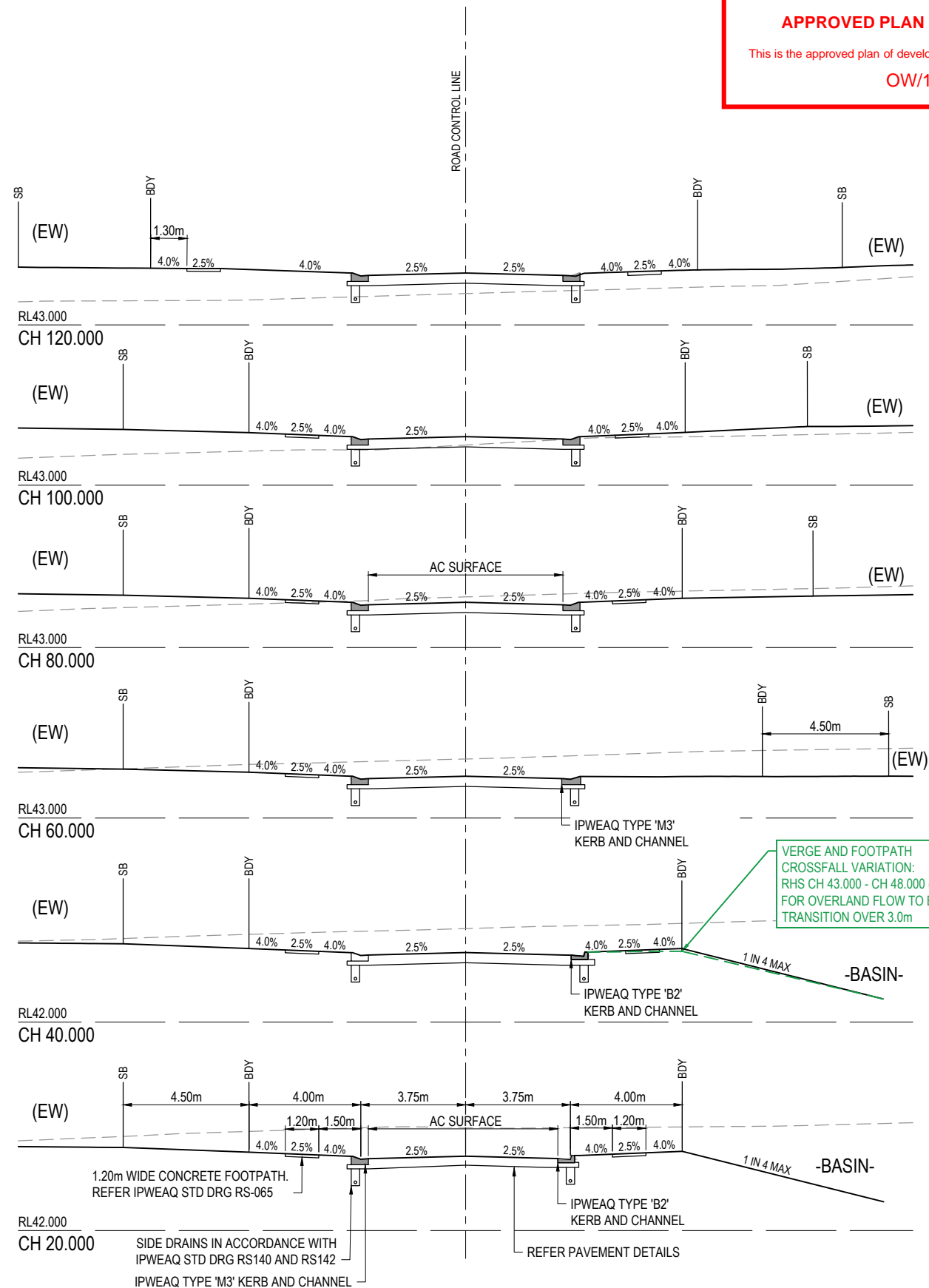
HORIZ SCALE: 1000
 VERTICAL SCALE: 100

ROAD 1

<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>28.06.19</td> <td>RD</td> <td>RD</td> <td>ORIGINAL ISSUE</td> </tr> <tr> <td>2</td> <td>09.09.20</td> <td>RD</td> <td>RD</td> <td>ROAD 8 REFERENCE REMOVED</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	1	28.06.19	RD	RD	ORIGINAL ISSUE	2	09.09.20	RD	RD	ROAD 8 REFERENCE REMOVED	<table border="1"> <thead> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>RD</td> <td>NOT FOR CONSTRUCTION</td> </tr> <tr> <td>RD</td> <td>APPROVED TROY SCHULTZ RPEQ 20631</td> </tr> </tbody> </table>	DRAWN	STATUS	RD	NOT FOR CONSTRUCTION	RD	APPROVED TROY SCHULTZ RPEQ 20631	<p>DEVELOPMENT ENGINEERS + ADVISORS</p> <p>ENQUIRIES@PEAKURBAN.COM.AU</p>	<p>SCALE</p> <p>1:1000 10 0 10 20 30 40 50 A1</p> <p>1:2000 HORIZONTAL A3</p> <p>1:100 2 1 0 2 4 A1</p> <p>1:200 VERTICAL A3</p>	<p>CLIENT</p> <p>KOPLICK DEVELOPMENTS PTY LTD</p> <p>ASSOCIATED CONSULTANT</p> <p>GOODROCK PROPERTY PH: 0423 557 882</p>	<p>PROJECT NAME</p> <p>PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)</p> <p>87 - 93 KOPLICK ROAD PARK RIDGE</p>	<p>DRAWING TITLE</p> <p>ROAD 1 LONGITUDINAL SECTION</p> <p>PROJECT No. 18-0114</p> <p>DRAWING No. 105</p> <p>REVISION 2</p>
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																							
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(EW) REFER TO BULK EARTHWORKS
 DRAWING FOR LOT GRADING AND
 FINISHED SURFACE LEVELS



VERGE AND FOOTPATH
 CROSSFALL VARIATION:
 RHS CH 43.000 - CH 48.000 (-0.5%)
 FOR OVERLAND FLOW TO BASIN.
 TRANSITION OVER 3.0m

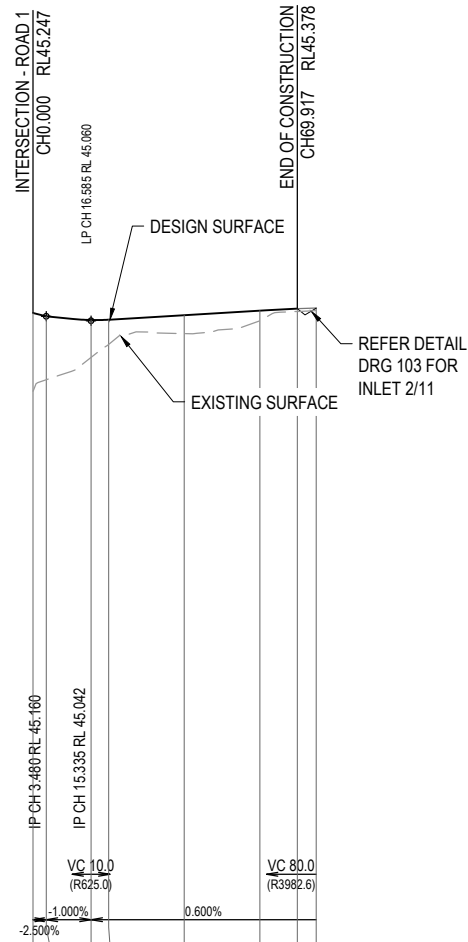
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2	31.10.19	RD	RD	SECTIONS AMENDED	RD					
3	09.09.20	RD	RD	CROSS SECTIONS AMENDED	RD					
DESIGN APPROVED TROY SCHULTZ RPEQ 20631							ENQUIRIES@PEAKURBAN.COM.AU	ASSOCIATED CONSULTANT GOODROCK PROPERTY PH: 0423 557 882	87 - 93 KOPLICK ROAD PARK RIDGE	PROJECT No. 18-0114
FOR AND ON BEHALF OF PEAKURBAN PTY LTD										

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 6	URBAN ACCESS STREET	1.1 x 10 ⁵	3	35mm	150mm	100mm	100mm	385mm

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

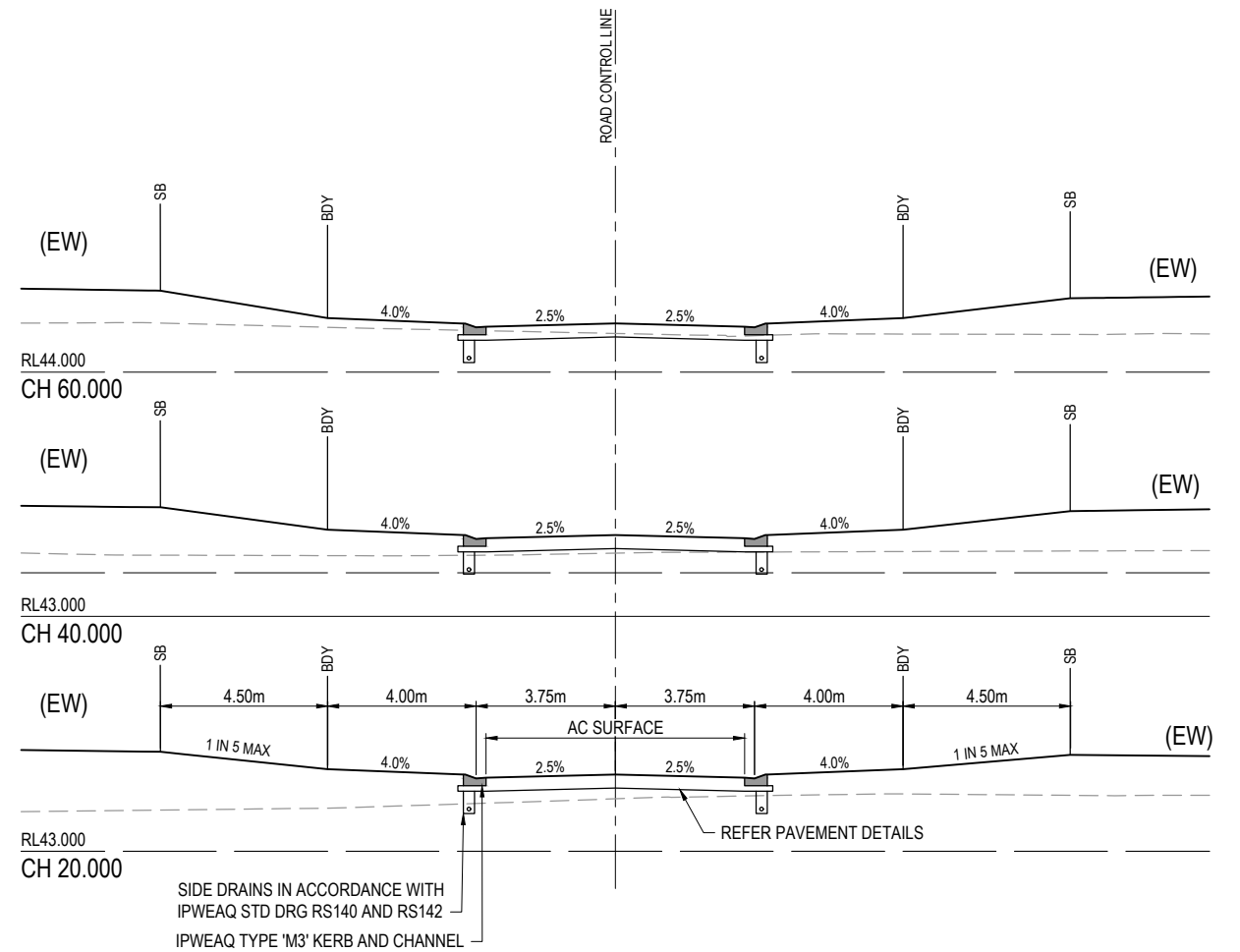


	0+000	3+480	15+335	20+000	40+000	60+000	74+915
CUT (-) / FILL	2.071	1.679	0.990	0.656	0.488	0.270	0.086
LHS LIP LEVEL	44.752	44.788	44.975	44.983	45.103	45.223	45.796
RHS LIP LEVEL			44.975	44.983	45.103	45.223	46.597
DESIGN SURFACE	45.247	45.160	45.062	45.070	45.190	45.310	45.377
EXISTING SURFACE	43.176	43.481	44.072	44.414	44.702	45.040	45.311
CHAINAGES	0.000	3.480	15.335	20.000	40.000	60.000	74.915
HORIZONTAL CURVES							

HORIZ SCALE: 1000
VERTICAL SCALE: 100

ROAD 6

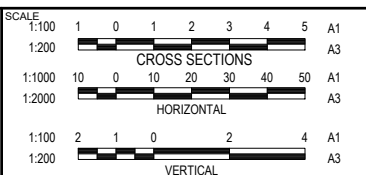
LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
 This is the approved plan of development for Development Application
 OW/115/2019



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE

DRAWN	STATUS
RD	NOT FOR CONSTRUCTION
DESIGN	APPROVED TROY SCHULTZ RPEQ 20631
RD	FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN
 DEVELOPMENT ENGINEERS • ADVISORS
 ENQUIRIES@PEAKURBAN.COM.AU



CLIENT
KOPLICK DEVELOPMENTS PTY LTD
 ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
 PARK RIDGE

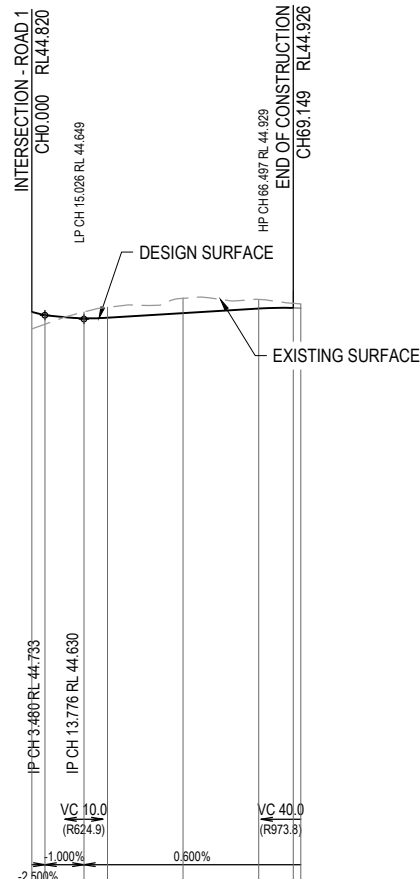
DRAWING TITLE		
ROAD 6 LONGITUDINAL SECTION AND CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
18-0114	107	1

ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	LOWER SUB BASE	TOTAL DEPTH
ROAD 7	URBAN ACCESS STREET	1.1 x 10 ⁵	3	35mm	150mm	100mm	100mm	385mm

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN



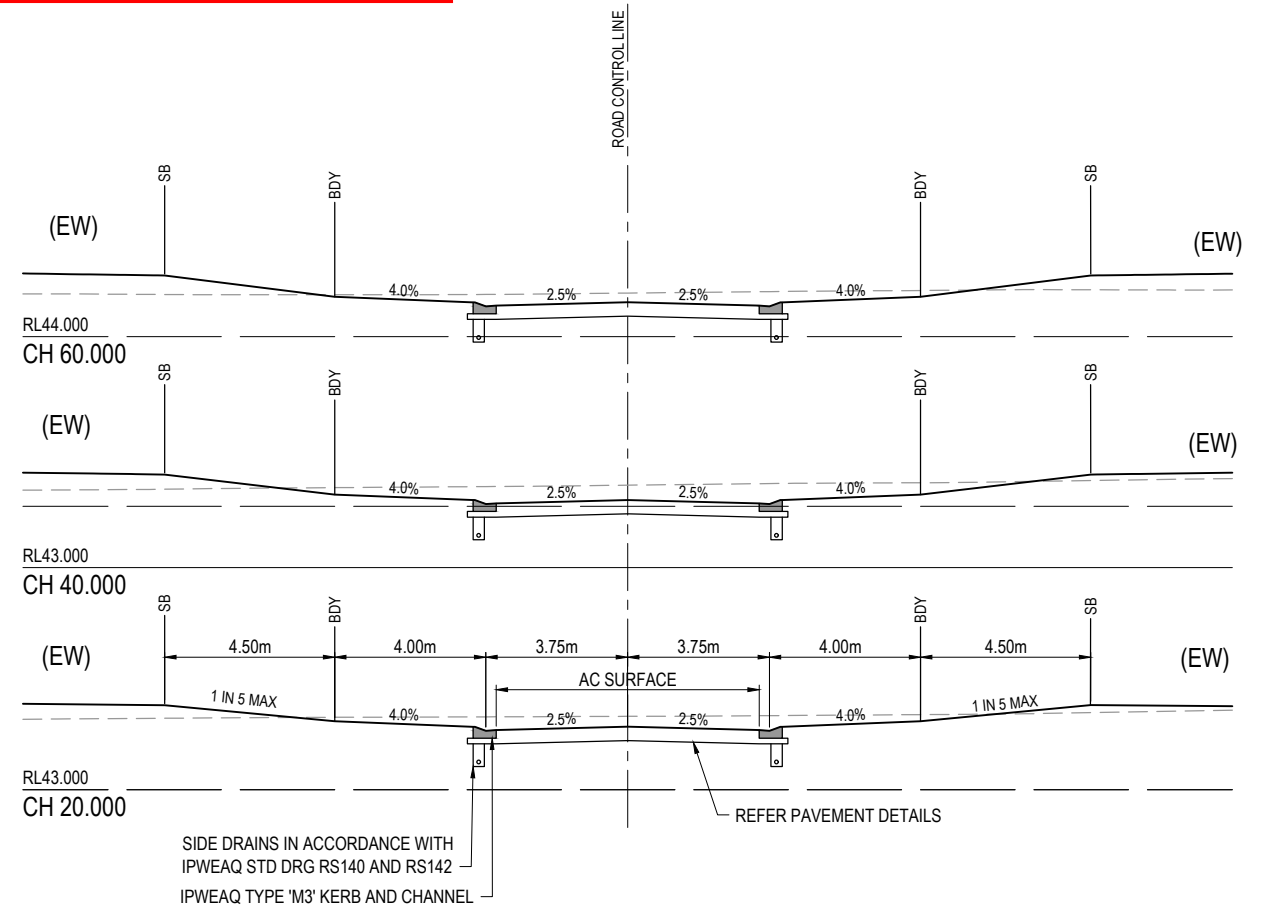
DATUM RL 29.0

	0.000	3.480	13.776	20.000	40.000	60.000	71.149
CUT (-) / FILL	0.450	0.237	-0.168	-0.274	-0.393	-0.243	-0.113
LHS LIP LEVEL	44.656	44.635	44.563	44.580	44.700	44.820	43.796
RHS LIP LEVEL	44.799	44.733	44.563	44.580	44.700	44.820	43.796
DESIGN SURFACE	44.820	44.733	44.650	44.667	44.787	44.907	44.918
EXISTING SURFACE	44.370	44.496	44.818	44.942	45.180	45.150	45.031
CHAINAGES							
HORIZONTAL CURVES							

HORIZ SCALE: 1000
VERTICAL SCALE: 100

ROAD 7

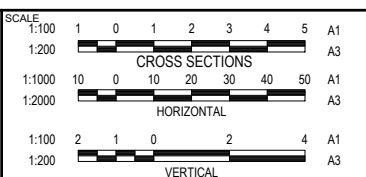
LOGAN CITY COUNCIL
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REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE

DRAWN	STATUS
RD	NOT FOR CONSTRUCTION
DESIGN	APPROVED TROY SCHULTZ RPEQ 20631
RD	

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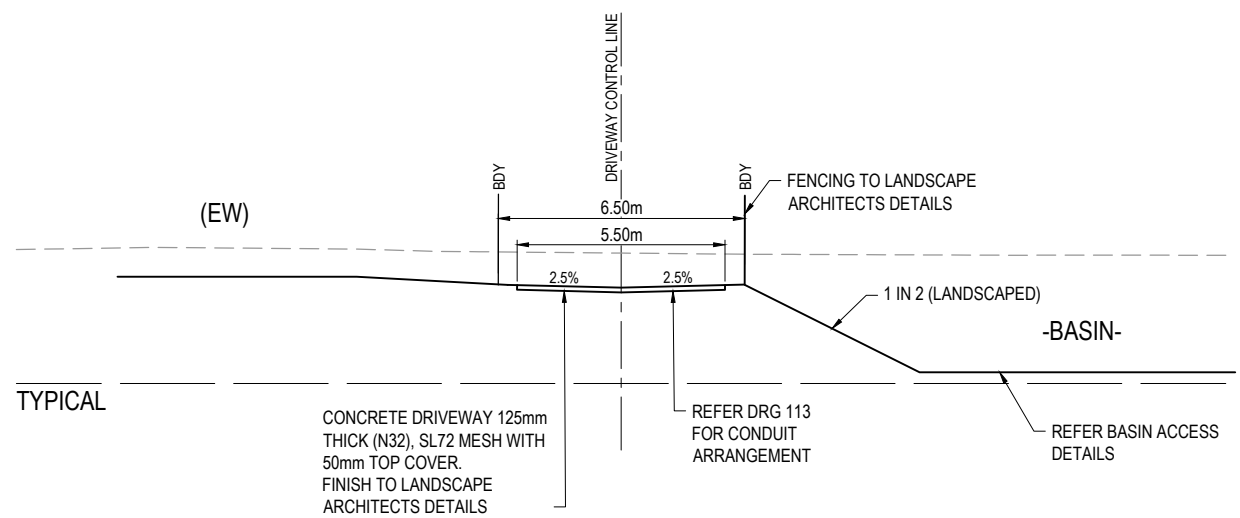
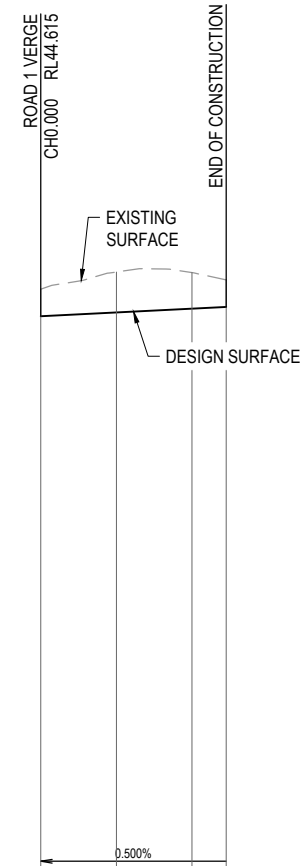
CLIENT
KOPLICK DEVELOPMENTS PTY LTD
 ASSOCIATED CONSULTANT
GOODROCK PROPERTY
PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
PARK RIDGE

DRAWING TITLE		
ROAD 7 LONGITUDINAL SECTION AND CROSS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
18-0114	108	1

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

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OW/115/2019



DATUM RL 29.0

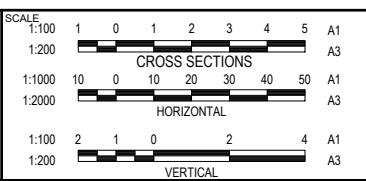
CUT (-) / FILL	0.000	20.000	40.000	49.053
CUT (-) / FILL	-0.718	-1.071	-0.957	-0.718
LHS EDGE LEVEL	44.684	44.784	44.884	44.183
RHS EDGE LEVEL	44.684	44.784	44.884	44.779
DESIGN SURFACE	44.615	44.715	44.815	44.860
EXISTING SURFACE	45.333	45.786	45.772	45.578
CHAINAGES	0.000	20.000	40.000	49.053
HORIZONTAL CURVES				

HORIZ SCALE: 1000
 VERTICAL SCALE: 100
DRIVEWAY 01

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	VERGE CROSSFALL
3	31.10.19	RD	RD	SECTIONS AMENDED
4	09.09.20	RD	RD	DRAWING RENAMED AND SECTIONS AMENDED

NOT FOR CONSTRUCTION

DESIGN APPROVED
 TROY SCHULTZ RPEQ 20631
 FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT
KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
 PARK RIDGE

DRAWING TITLE		
DRIVEWAY 01 LONGITUDINAL SECTION AND TYPICAL CROSS SECTION		
PROJECT No.	DRAWING No.	REVISION
18-0114	109	4

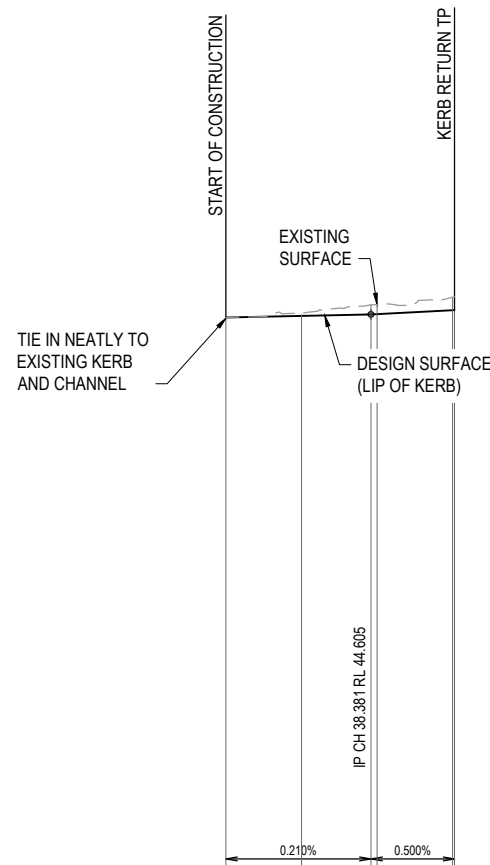
ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	TOTAL DEPTH
KOPLICK ROAD	URBAN COLLECTOR	6.4 x 10 ⁶	3	50mm	300mm	100mm	450mm

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

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 OW/115/2019

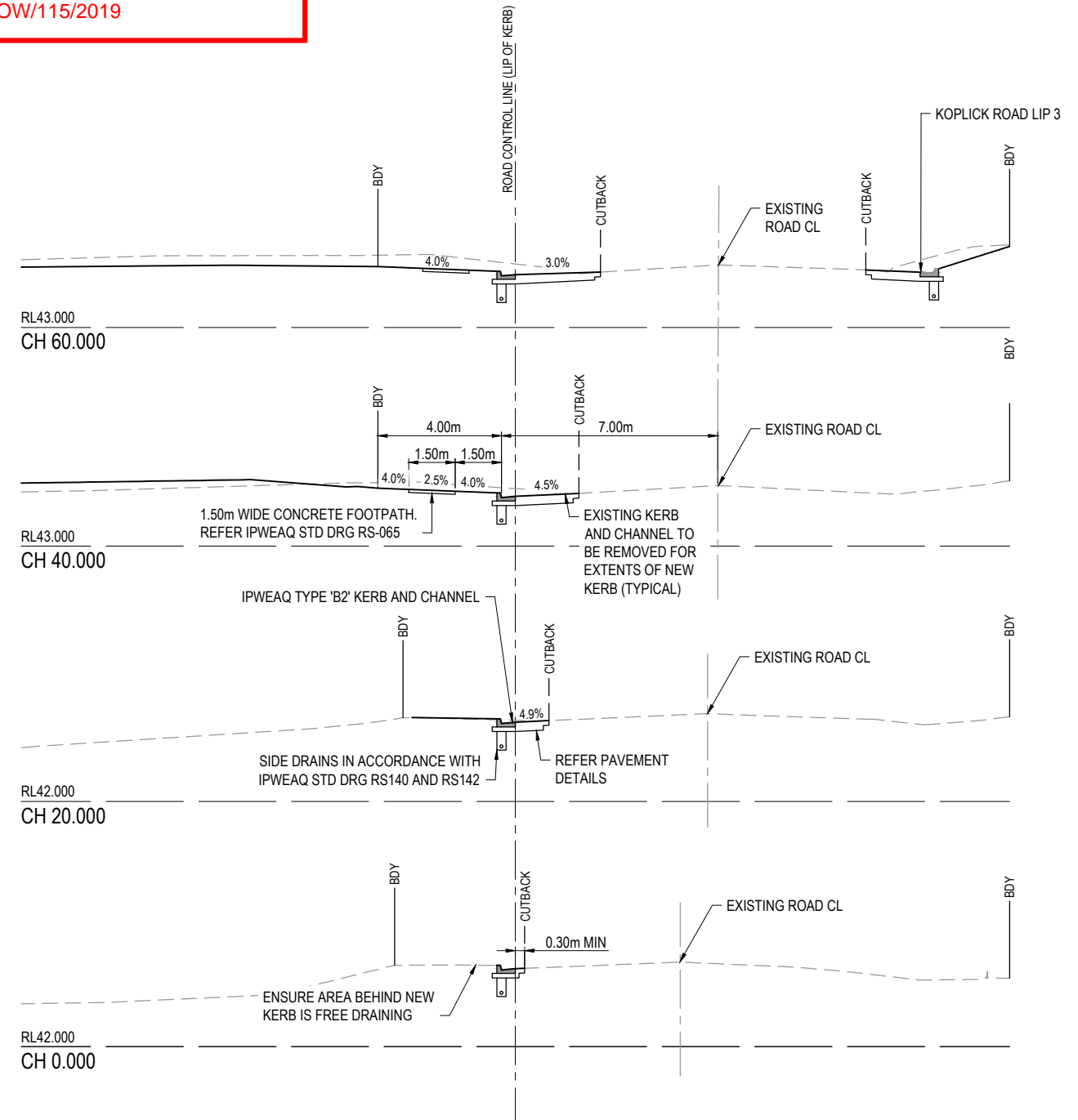


DATUM RL 29.0

	0+000	20+000	38+381	40+000	60+000	60+506
CUT (-) / FILL	0.000	-0.062	-0.253	-0.252	-0.348	-0.358
DESIGN SURFACE (LIP)	44.524	44.566	44.605	44.613	44.713	44.715
EXISTING SURFACE	44.524	44.628	44.857	44.864	45.060	45.074
CHAINAGES	0.000	20.000	38.381	40.000	60.000	60.506
HORIZONTAL CURVES						

HORIZ SCALE: 1000
 VERTICAL SCALE: 100

KOPLICK ROAD LIP1



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE

NOT FOR CONSTRUCTION

DESIGN APPROVED
 TROY SCHULTZ RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN
 DEVELOPMENT ENGINEERS • ADVISORS

ENQUIRIES@PEAKURBAN.COM.AU

SCALE
 1:100 CROSS SECTIONS
 1:1000 HORIZONTAL
 1:2000 VERTICAL

CLIENT
KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
 PARK RIDGE

DRAWING TITLE
KOPLICK ROAD LIP 1 LONGITUDINAL SECTION AND CROSS SECTIONS

PROJECT No. **18-0114**
 DRAWING No. **110**
 REVISION **1**

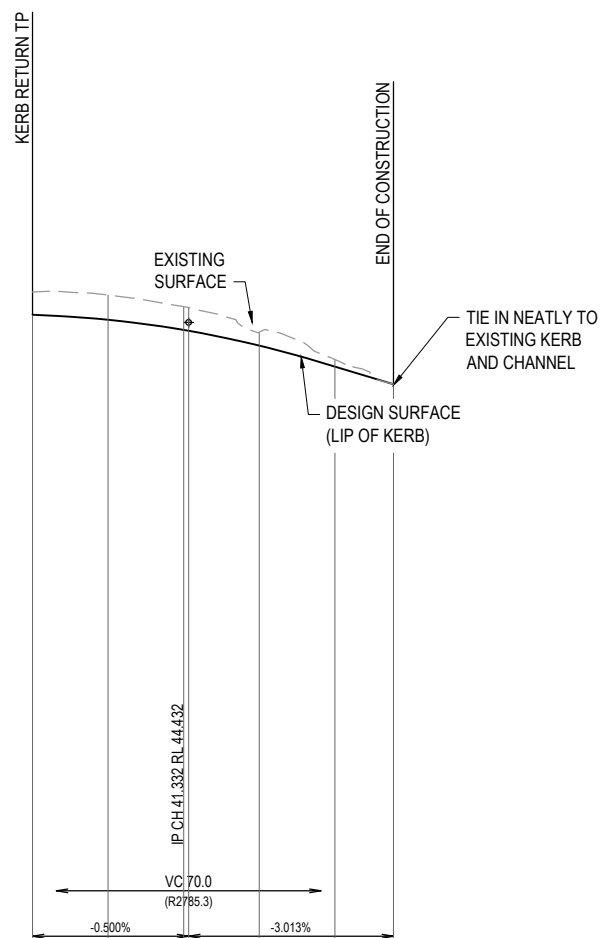
ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	TOTAL DEPTH
KOPLICK ROAD	URBAN COLLECTOR	6.4 x 10 ⁶	3	50mm	300mm	100mm	450mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
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 OW/115/2019

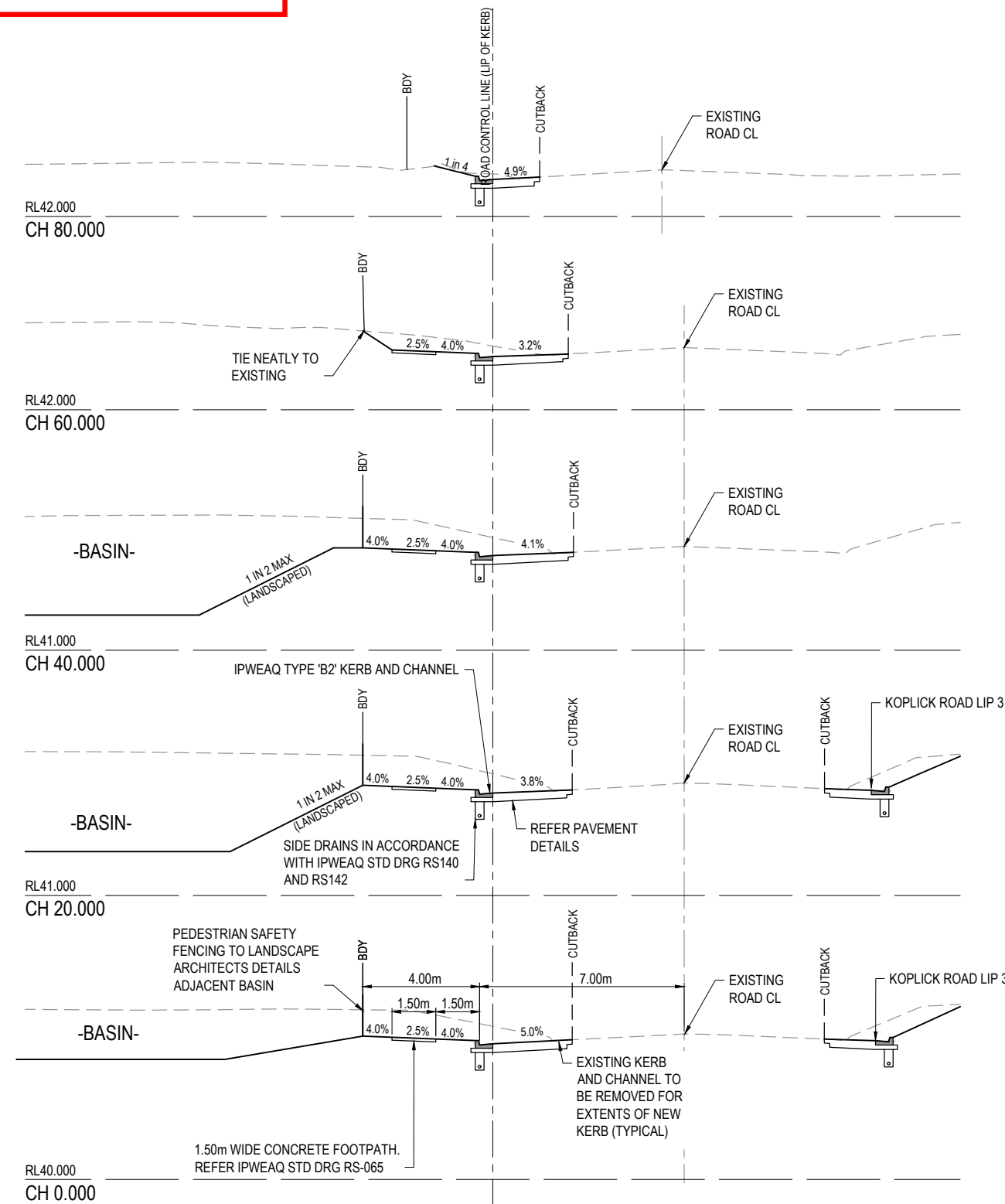


DATUM RL 27.0

	0+000	20+000	40+000	41+332	60+000	80+000	95+505
CUT (-) / FILL	-0.599	-0.654	-0.618	-0.615	-0.353	-0.188	0.000
LHS LIP LEVEL	44.639	44.505	44.236	44.212	43.822	43.267	
RHS LIP LEVEL	44.639	44.505	44.236	44.212	43.822	43.267	
DESIGN SURFACE	44.639	44.505	44.236	44.212	43.822	43.267	42.800
EXISTING SURFACE	45.238	45.160	44.853	44.827	44.175	43.455	42.800
CHAINAGES	0.000	20.000	40.000	41.332	60.000	80.000	95.505
HORIZONTAL CURVES							

HORIZ SCALE: 1000
 VERTICAL SCALE: 100

KOPLICK ROAD LIP2



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	31.10.19	RD	RD	SECTIONS AMENDED
3	09.09.20	RD	RD	SECTIONS AMENDED

NOT FOR CONSTRUCTION

DESIGN APPROVED
 TROY SCHULTZ RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN
 DEVELOPMENT ENGINEERS • ADVISORS

ENQUIRIES@PEAKURBAN.COM.AU

SCALE
 1:100 CROSS SECTIONS
 1:1000 HORIZONTAL
 1:2000 VERTICAL

CLIENT
KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
 PARK RIDGE

DRAWING TITLE
KOPLICK ROAD LIP 2 LONGITUDINAL SECTION AND CROSS SECTIONS

PROJECT No. **18-0114**
 DRAWING No. **111**
 REVISION **3**

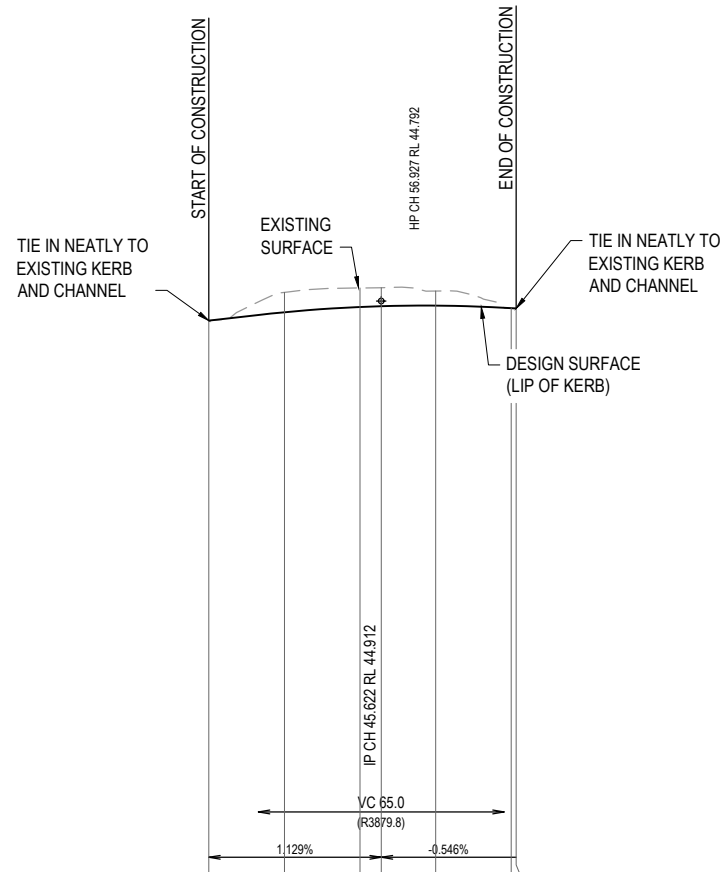
ASSUMED PAVEMENT DETAILS (SUBJECT TO CBR TESTING)

ROAD	ROAD CLASSIFICATION	DESIGN ESAs	ASSUMED CBR	SURFACING	BASE	SUB BASE	TOTAL DEPTH
KOPLICK ROAD	URBAN COLLECTOR	6.4 x 10 ⁶	3	50mm	300mm	100mm	450mm

NOTE: THIS PAVEMENT DESIGN IS PRELIMINARY ONLY BASED ON AN ASSUMED CBR. THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH SUBGRADE TEST RESULTS NECESSARY FOR FINAL PAVEMENT DESIGN

(EW) REFER TO BULK EARTHWORKS DRAWING FOR LOT GRADING AND FINISHED SURFACE LEVELS

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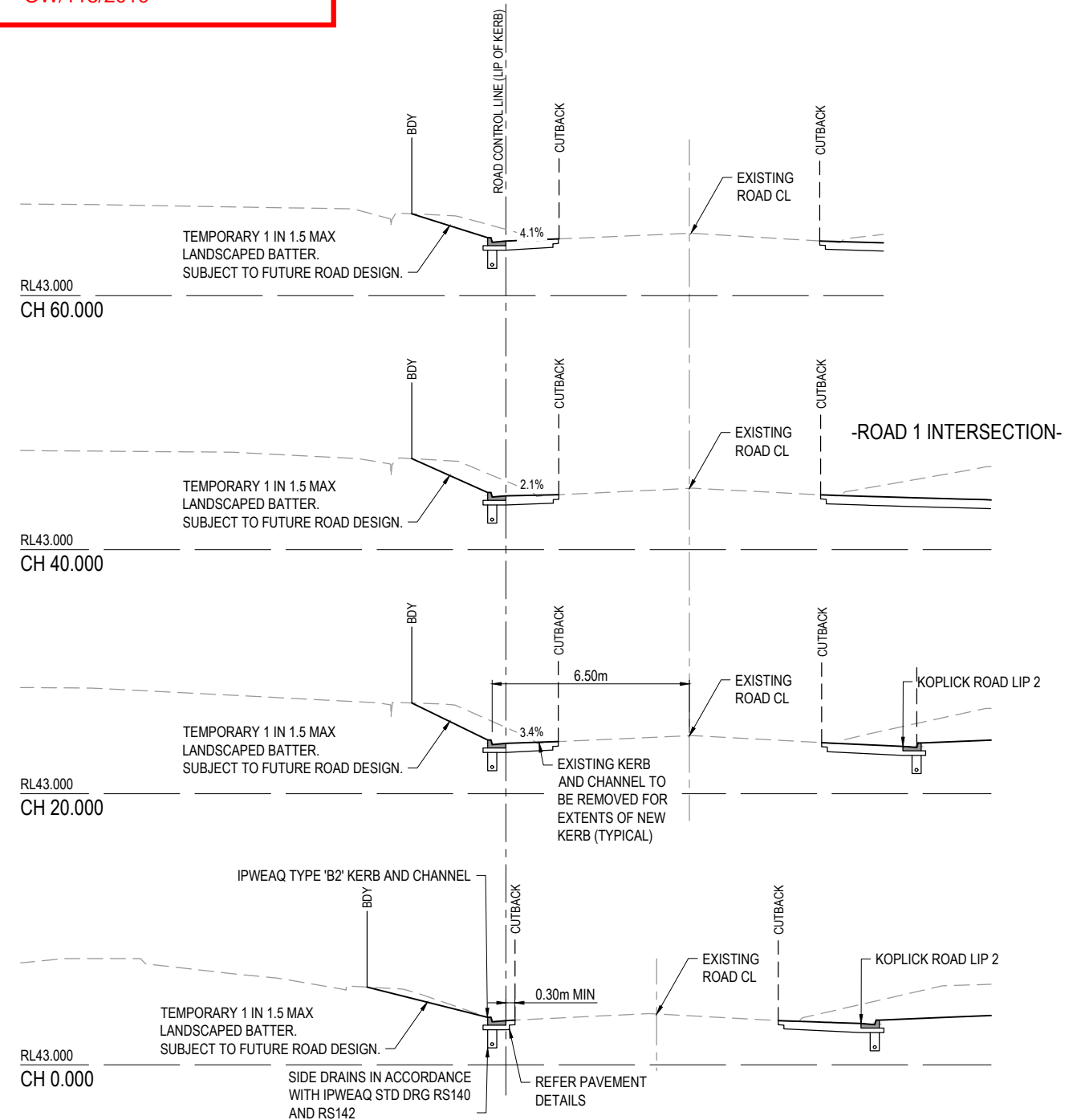


DATUM RL 29.0

CUT (-) / FILL	0.000	20.000	40.000	45.622	60.000	80.000	81.335
LHS LIP LEVEL	44.397	44.617	44.756	44.776	44.791	44.724	44.635
RHS LIP LEVEL	44.397	44.617	44.756	44.776	44.791	44.724	44.635
DESIGN SURFACE	44.397	44.617	44.756	44.776	44.791	44.724	44.717
EXISTING SURFACE	44.397	45.142	45.259	45.266	45.178	44.720	44.717
CHAINAGES	0.000	20.000	40.000	45.622	60.000	80.000	81.335
HORIZONTAL CURVES							

HORIZ SCALE: 1000
 VERTICAL SCALE: 100

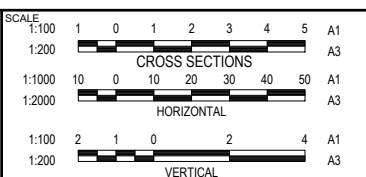
KOPLICK ROAD LIP3



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	SECTIONS AMENDED

DRAWN	STATUS
RD	NOT FOR CONSTRUCTION
DESIGN	APPROVED
RD	TROY SCHULTZ RPEQ 20631

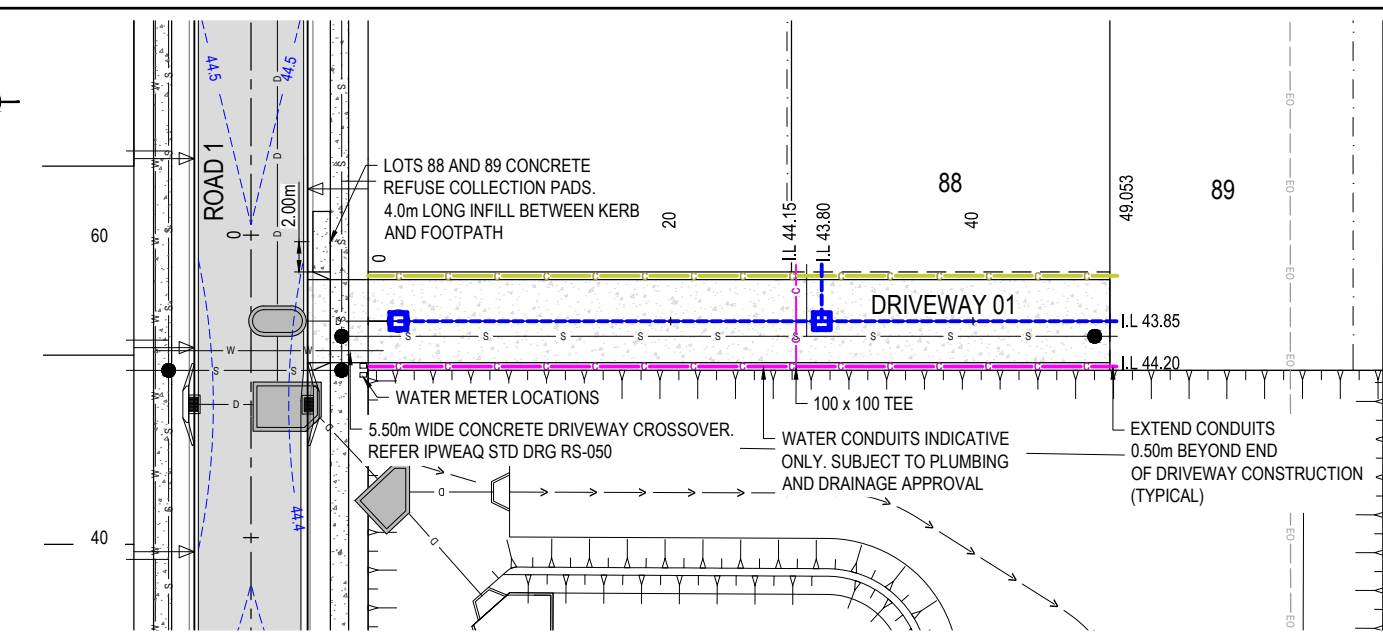
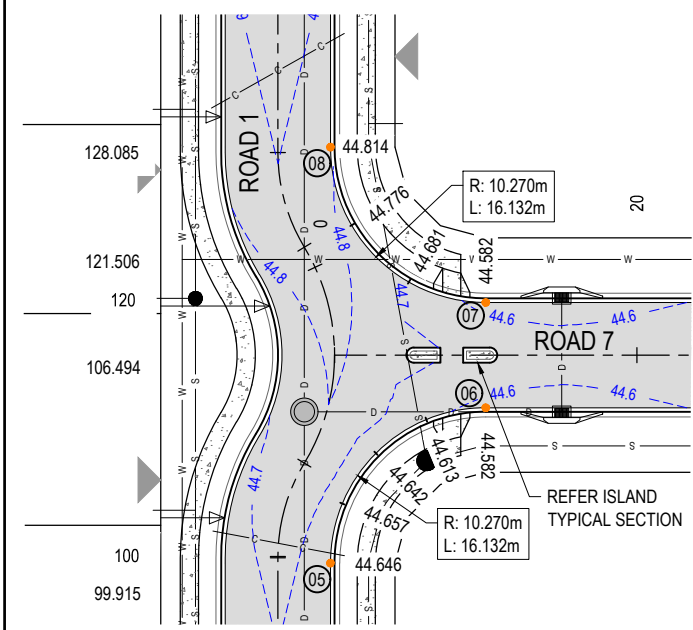
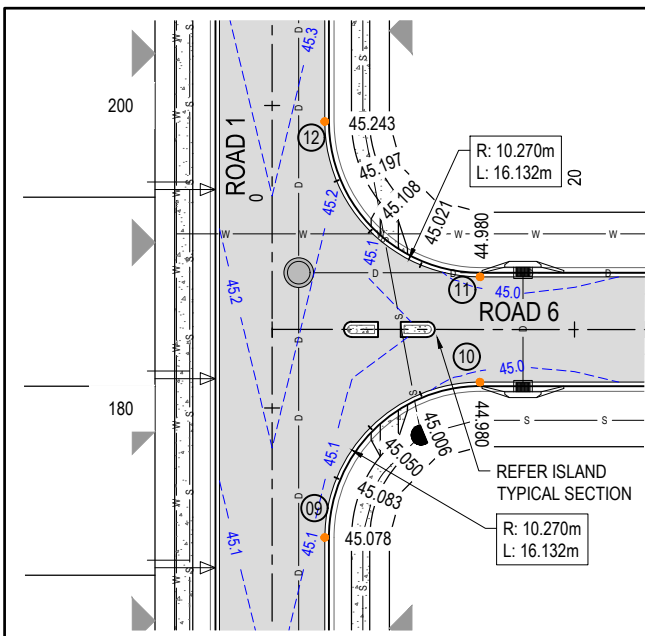
PEAKURBAN
 DEVELOPMENT ENGINEERS + ADVISORS
 ENQUIRIES@PEAKURBAN.COM.AU



CLIENT: KOPLICK DEVELOPMENTS PTY LTD
 ASSOCIATED CONSULTANT: GOODROCK PROPERTY PH: 0423 557 882

PROJECT NAME: PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD PARK RIDGE

DRAWING TITLE: KOPLICK ROAD LIP 3 LONGITUDINAL SECTION AND CROSS SECTIONS		
PROJECT No. 18-0114	DRAWING No. 112	REVISION 2



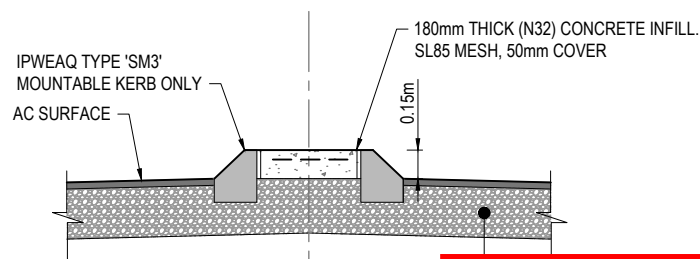
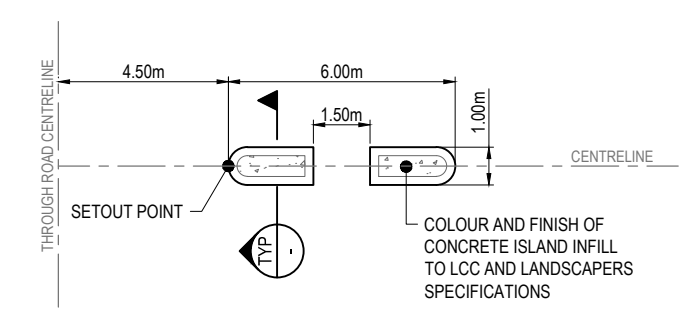
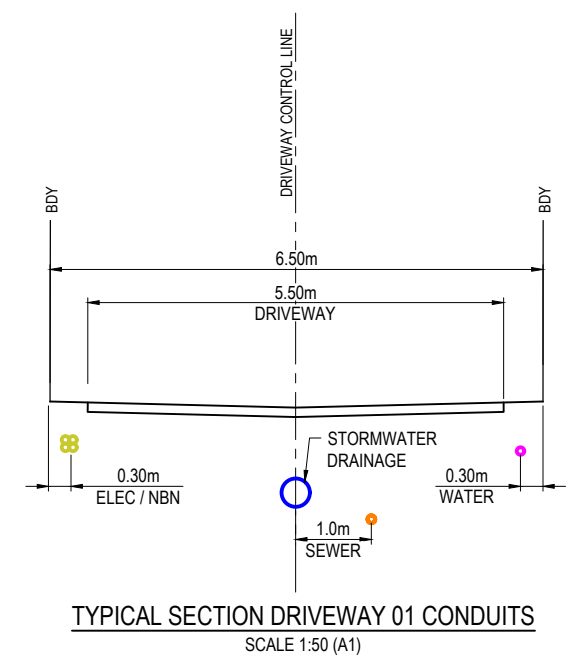
SETOUT DATA

POINT	EASTING	NORTHING
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02	2022.537	5007.612
03	2029.137	5007.867
04	2039.684	4997.417
05	2029.317	5089.799
06	2039.587	5100.069
07	2039.587	5107.029
08	2029.317	5117.299
09	2029.318	5160.300
10	2039.587	5170.569
11	2039.587	5177.529
12	2029.317	5187.799

**DRIVEWAY 01
GENERAL ARRANGEMENT**

DRIVEWAY SERVICE CONNECTION NOTE:
CONNECTIONS TO LOGAN WATER SEWER AND WATER SYSTEM TO BE CARRIED OUT BY A LICENSED PLUMBER

- LEGEND - DRIVEWAY 01 CONDUITS**
- STORMWATER DRAINAGE Ø375 RCP (0.90m COVER)
 - ROOFWATER DRAINAGE CONNECTION Ø150 uPVC (0.90m COVER)
 - PROPOSED WATER CONDUIT Ø100 uPVC (0.60m COVER)
 - ELECTRICAL / NBN CONDUITS - REFER ELECTRICAL DRAWINGS FOR CONDUIT SCHEDULE AND COVER REQUIREMENTS

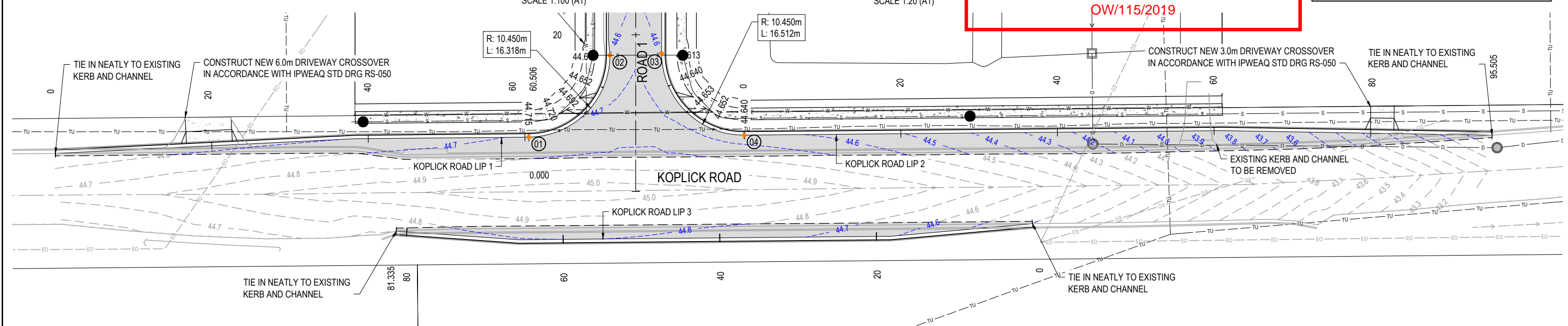


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This is the approved plan of development for Development Application
OW/115/2019

WARNING! - EXISTING SERVICES
EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLE
- TELECOMMUNICATIONS CABLES











THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.



REV	DATE	DESIGN	DRAWN	ORIGINAL ISSUE	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
1	28.06.19	RD	RD	ORIGINAL ISSUE							
2	03.09.19	RD	RD	KOPLICK ROAD LIP 3		RD					
3	31.10.19	RD	RD	ISLAND KERB TYPE AMENDED							
4	09.09.20	RD	RD	DRAWING RENAMED AND LAYOUT AMENDED							
5	19.10.20	RD	RD	DRIVEWAY 01 ARRANGEMENT AMENDED							

NOT FOR CONSTRUCTION	PEAKURBAN DEVELOPMENT ENGINEERS • ADVISORS	SCALE 1:250 5 0 5 10 A1 1:500	CLIENT KOPLICK DEVELOPMENTS PTY LTD	PROJECT NAME PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)	DRAWING TITLE INTERSECTION AND DRIVEWAY DETAILS LAYOUT PLAN
DESIGN APPROVED TROY SCHULTZ RPEQ 20631	ENQUIRIES@PEAKURBAN.COM.AU		ASSOCIATED CONSULTANT GOODROCK PROPERTY PH: 0423 557 882	87 - 93 KOPLICK ROAD PARK RIDGE	PROJECT No. 18-0114
					DRAWING No. 113
					REVISION 5

LEGEND

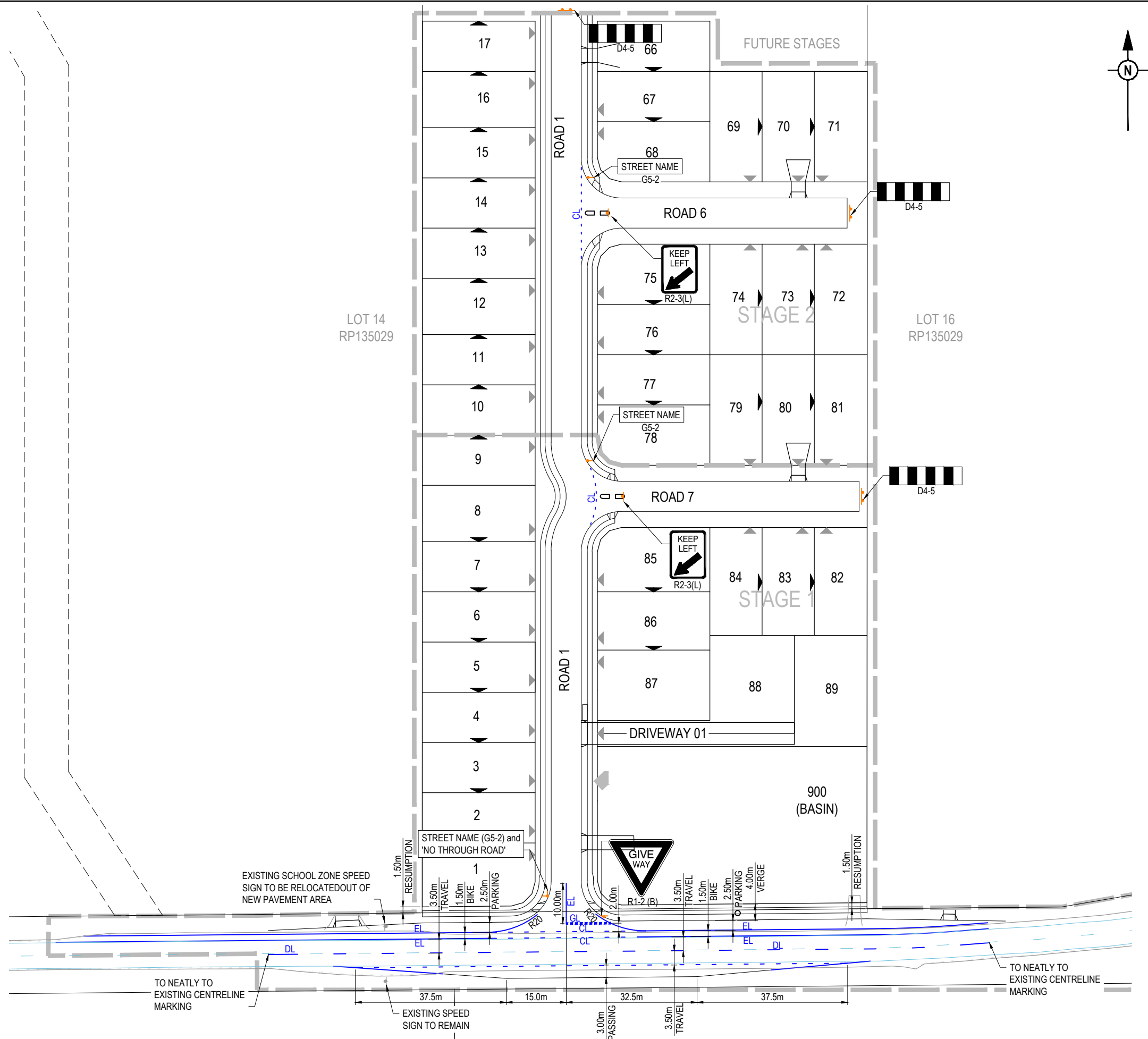
-  PROPOSED STREET NAME SIGN
-  PROPOSED ROAD SIGN
-  EXISTING ROAD SIGN
-  PROPOSED GIVE WAY LINE
-  PROPOSED DIVIDING LINE
-  PROPOSED LANE LINE - CONTINUOUS
-  PROPOSED EDGE LINE
-  PROPOSED CONTINUITY LINE
-  EXISTING DIVIDING LINE
-  EXISTING EDGE LINE

NOTES:

1. ALL SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND L.C.C. STANDARDS.
2. RETRO-REFLECTIVE PAVEMENT MARKERS (RRPM's) TO BE INSTALLED AS REQUIRED TO MUTCD AND COUNCIL STANDARDS.
3. CONTRACTOR TO ENSURE SIGN LOCATIONS ARE CLEAR OF ALL FUTURE DRIVEWAY LOCATIONS.


LOGAN CITY COUNCIL
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 OW/115/2019

KOPLICK ROAD INTERSECTION NOTE:
 KOPLICK ROAD DESIGN SPEED 90km/Hr
 INTERSECTION DIMENSIONS IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 4A - UNSIGNALISED AND SIGNALISED INTERSECTIONS, FIGURE 7.6




REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	DIMENSIONS AND NOTE ADDED
3	31.10.19	RD	RD	DIMENSION ADDED
4	09.09.20	RD	RD	LAYOUT AMENDED

NOT FOR CONSTRUCTION

DESIGN APPROVED
 TROY SCHULTZ RPEQ 20631

 FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN
 DEVELOPMENT ENGINEERS • ADVISORS
 ENQUIRIES@PEAKURBAN.COM.AU

SCALE
 1:500 10 5 0 10 20 A1
 1:1000  A3

CLIENT
KOPLICK DEVELOPMENTS PTY LTD
 ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
 PARK RIDGE

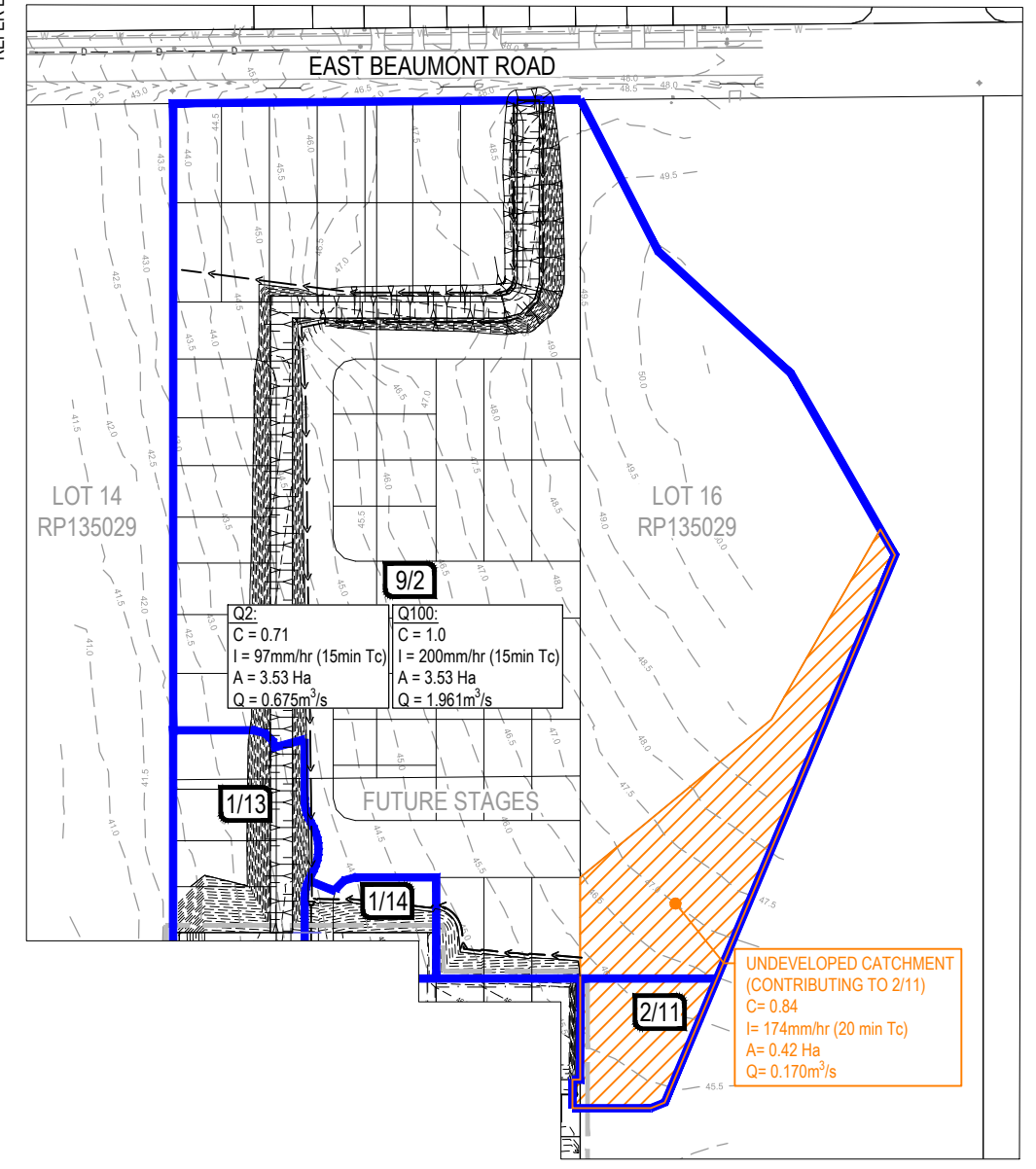
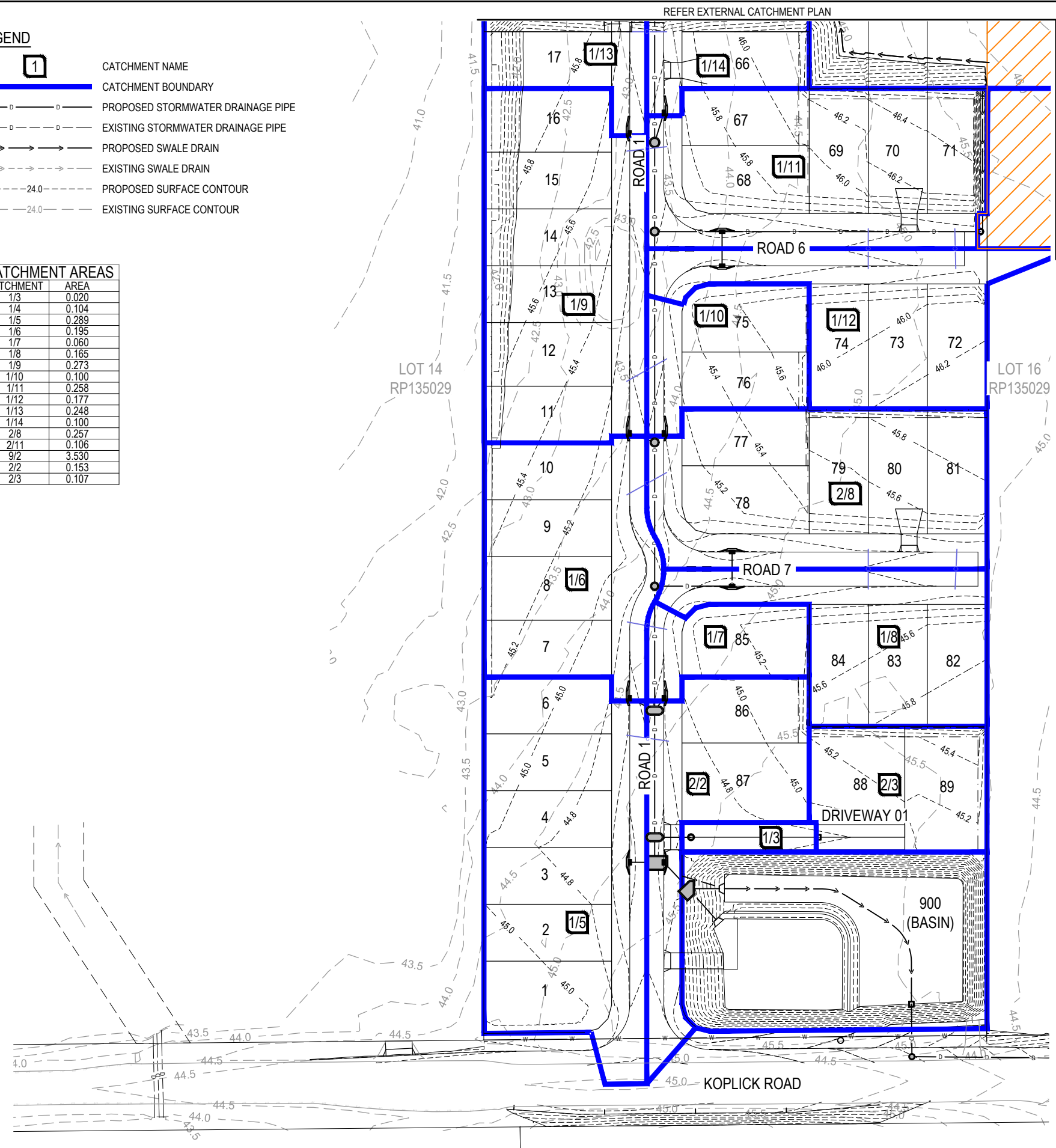
DRAWING TITLE
SIGNS AND LINEMARKING LAYOUT PLAN

PROJECT No. 18-0114	DRAWING No. 114	REVISION 4
-------------------------------	---------------------------	----------------------

LEGEND

- 1 CATCHMENT NAME
- CATCHMENT BOUNDARY
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED SWALE DRAIN
- EXISTING SWALE DRAIN
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR

CATCHMENT AREAS	
CATCHMENT	AREA
1/3	0.020
1/4	0.104
1/5	0.289
1/6	0.195
1/7	0.060
1/8	0.165
1/9	0.273
1/10	0.100
1/11	0.258
1/12	0.177
1/13	0.248
1/14	0.100
2/8	0.257
2/11	0.106
9/2	3.530
2/2	0.153
2/3	0.107



LOGAN CITY COUNCIL

APPROVED PLAN OF DEVELOPMENT

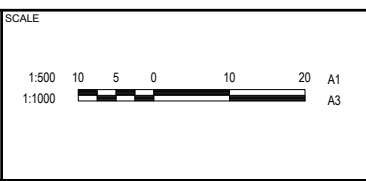
This is the approved plan of development for Development Application
 OW/115/2019

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	EXTERNAL WORKS BATTER
3	31.10.19	RD	RD	BASIN AMENDED
4	09.09.20	RD	RD	CATCHMENTS AMENDED

NOT FOR CONSTRUCTION

DESIGN APPROVED
 TROY SCHULTZ
 RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT
KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)

87 - 93 KOPLICK ROAD
 PARK RIDGE

DRAWING TITLE		
STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
18-0114	115	4

STRUCTURE NAME	STRUCTURE DESCRIPTION
----------------	-----------------------

STORMWATER STRUCTURE NOTE:
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
 PILL EXTENDED MANHOLES:
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
 RECTANGULAR STRUCTURE (SPECIAL):
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm Class)	525(2)	600(2)	600(2)	750(2)
PIPE GRADE %	0.50%	2.36%	0.30%	0.30%
PIPE SLOPE 1 in X	199.99	42.36	333.33	333.34
FULL PIPE FLOW VELOCITY (m/s)	3.35	2.57	2.57	1.64
PART FULL FLOW VELOCITY (m/s)				


WATER LEVEL IN STRUCTURE	HYDRAULIC GRADE LEVEL	PIPE FLOW (Cumecs)	DEPTH TO INVERT	INVERT LEVEL OF DRAIN	DESIGN SURFACE LEVEL	SETOUT	RUNNING CHAINAGE
--------------------------	-----------------------	--------------------	-----------------	-----------------------	----------------------	--------	------------------

LINE	1	2	3	4	5	6
DATUM RL 30.0						
E: 2084.093	43.750	44.482	44.585	44.759	44.585	44.340
N: 5007.859	44.277	45.341	44.857	44.309	44.309	44.308
E: 2135.813	42.873	45.343	45.343	44.947	44.759	44.427
N: 4995.614	41.365	44.815	44.815	44.309	42.856	42.733
E: 2178.580	40.873	44.857	44.857	42.959	42.876	42.753
N: 5000.479	40.610	44.815	44.815	42.939	42.856	42.733
E: 2185.655	40.562	44.815	44.815	42.939	42.856	42.733
N: 4991.456	40.562	44.815	44.815	42.939	42.856	42.733

LINE	7	8	9	10	11	12	13	14	15	16
DATUM RL 30.0										
E: 2027.587	44.482	44.482	44.482	44.482	44.482	44.482	44.482	44.482	44.482	44.482
N: 5029.325	45.341	45.341	45.341	45.341	45.341	45.341	45.341	45.341	45.341	45.341
E: 2027.587	44.857	44.857	44.857	44.857	44.857	44.857	44.857	44.857	44.857	44.857
N: 5197.416	44.815	44.815	44.815	44.815	44.815	44.815	44.815	44.815	44.815	44.815
E: 2027.587	44.768	44.768	44.768	44.768	44.768	44.768	44.768	44.768	44.768	44.768
N: 5177.799	44.686	44.686	44.686	44.686	44.686	44.686	44.686	44.686	44.686	44.686
E: 2027.587	44.509	44.509	44.509	44.509	44.509	44.509	44.509	44.509	44.509	44.509
N: 5131.416	44.445	44.445	44.445	44.445	44.445	44.445	44.445	44.445	44.445	44.445
E: 2027.587	44.309	44.309	44.309	44.309	44.309	44.309	44.309	44.309	44.309	44.309
N: 5099.799	44.308	44.308	44.308	44.308	44.308	44.308	44.308	44.308	44.308	44.308
E: 2027.587	44.225	44.225	44.225	44.225	44.225	44.225	44.225	44.225	44.225	44.225
N: 5072.416	44.209	44.209	44.209	44.209	44.209	44.209	44.209	44.209	44.209	44.209
E: 2027.587	44.147	44.147	44.147	44.147	44.147	44.147	44.147	44.147	44.147	44.147
N: 5044.553	44.113	44.113	44.113	44.113	44.113	44.113	44.113	44.113	44.113	44.113
E: 2027.587	44.100	44.100	44.100	44.100	44.100	44.100	44.100	44.100	44.100	44.100
N: 5039.034	43.996	43.996	43.996	43.996	43.996	43.996	43.996	43.996	43.996	43.996
E: 2035.019	43.929	43.929	43.929	43.929	43.929	43.929	43.929	43.929	43.929	43.929
N: 5033.256	43.888	43.888	43.888	43.888	43.888	43.888	43.888	43.888	43.888	43.888
E: 2041.874	43.715	43.715	43.715	43.715	43.715	43.715	43.715	43.715	43.715	43.715
N: 5033.256	43.653	43.653	43.653	43.653	43.653	43.653	43.653	43.653	43.653	43.653

LINE	17	18	19	20	21	22
DATUM RL 30.0						
E: 2063.587	44.765	44.765	44.765	44.765	44.765	44.765
N: 5044.549	44.591	44.591	44.591	44.591	44.591	44.591
E: 2035.587	44.634	44.634	44.634	44.634	44.634	44.634
N: 5044.552	44.166	44.166	44.166	44.166	44.166	44.166
E: 2027.585	44.427	44.427	44.427	44.427	44.427	44.427
N: 5044.553	44.113	44.113	44.113	44.113	44.113	44.113
E: 2215.775	40.631	40.631	40.631	40.631	40.631	40.631
N: 4988.830	38.798	38.798	38.798	38.798	38.798	38.798
E: 2222.975	38.623	38.623	38.623	38.623	38.623	38.623
N: 4988.899	38.423	38.423	38.423	38.423	38.423	38.423
E: 2022.087	44.355	44.355	44.355	44.355	44.355	44.355
N: 5039.056	44.183	44.183	44.183	44.183	44.183	44.183
E: 2027.584	44.419	44.419	44.419	44.419	44.419	44.419
N: 5039.034	43.934	43.934	43.934	43.934	43.934	43.934
E: 2022.087	44.538	44.538	44.538	44.538	44.538	44.538
N: 5075.161	44.226	44.226	44.226	44.226	44.226	44.226
E: 2027.587	44.585	44.585	44.585	44.585	44.585	44.585
N: 5072.416	44.209	44.209	44.209	44.209	44.209	44.209

LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
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 OW/115/2019

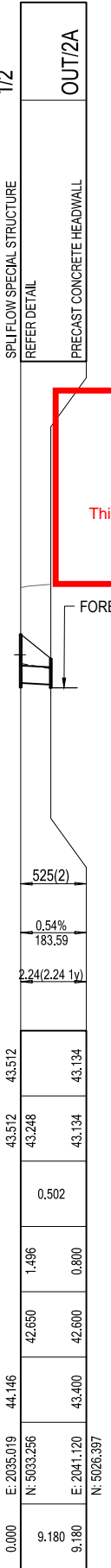
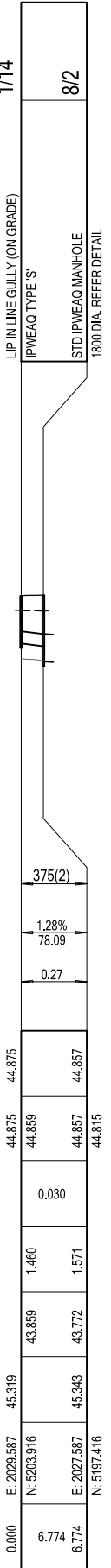
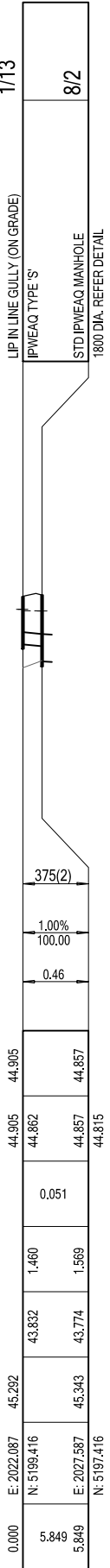
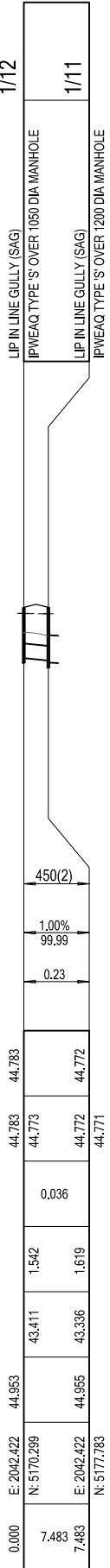
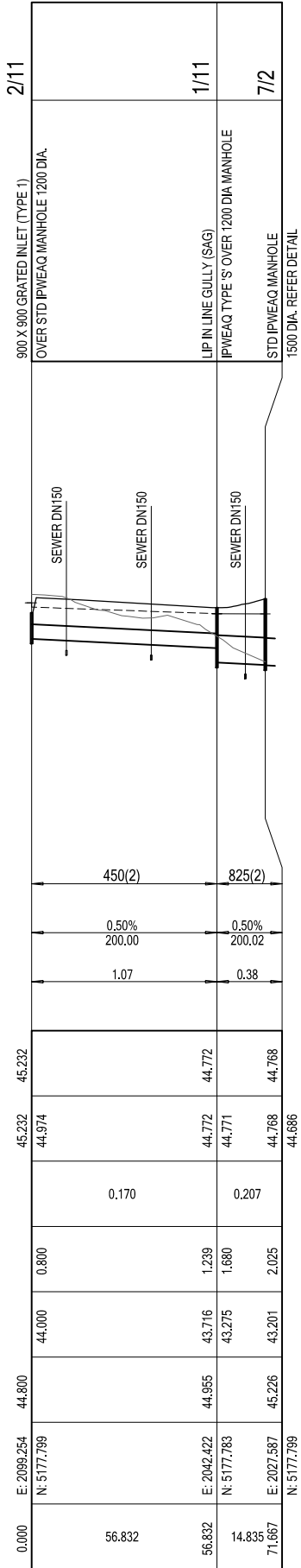
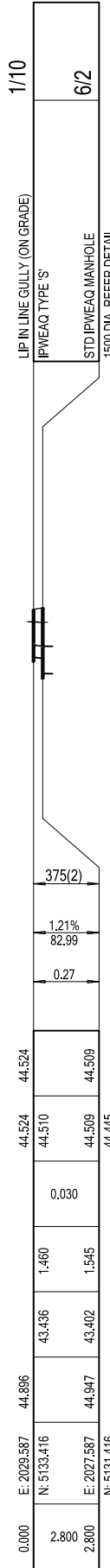
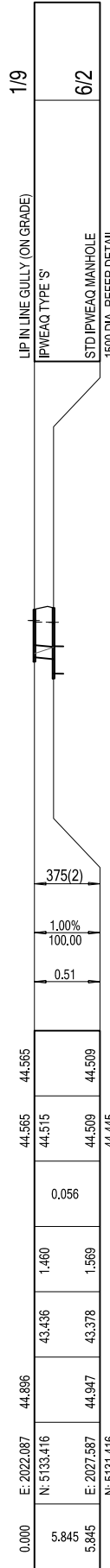
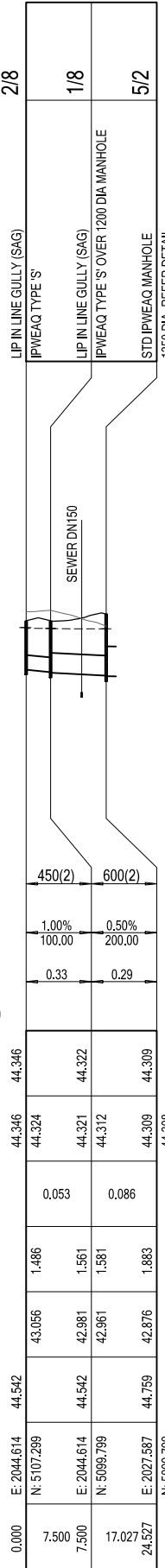
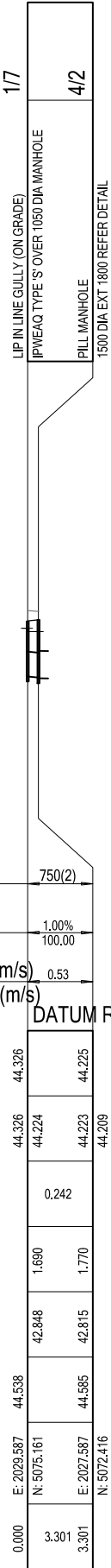
<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> <tr> <td>1</td> <td>28.08.19</td> <td>RD</td> <td>RD</td> <td>ORIGINAL ISSUE</td> </tr> <tr> <td>2</td> <td>03.09.19</td> <td>RD</td> <td>RD</td> <td>LONGSECTION AMENDED</td> </tr> <tr> <td>3</td> <td>31.10.19</td> <td>RD</td> <td>RD</td> <td>LINES 1 AND 2 AMENDED</td> </tr> <tr> <td>4</td> <td>09.09.20</td> <td>RD</td> <td>RD</td> <td>LONGSECTIONS AMENDED</td> </tr> <tr> <td>5</td> <td>19.10.20</td> <td>RD</td> <td>RD</td> <td>WATER SERVICE CROSSING LINE 2</td> </tr> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	1	28.08.19	RD	RD	ORIGINAL ISSUE	2	03.09.19	RD	RD	LONGSECTION AMENDED	3	31.10.19	RD	RD	LINES 1 AND 2 AMENDED	4	09.09.20	RD	RD	LONGSECTIONS AMENDED	5	19.10.20	RD	RD	WATER SERVICE CROSSING LINE 2	<table border="1"> <tr> <th>DRAWN</th> <th>STATUS</th> </tr> <tr> <td>RD</td> <td>NOT FOR CONSTRUCTION</td> </tr> <tr> <th>DESIGN</th> <th>APPROVED</th> </tr> <tr> <td>RD</td> <td>TROY SCHULTZ RPEQ 20631</td> </tr> </table>	DRAWN	STATUS	RD	NOT FOR CONSTRUCTION	DESIGN	APPROVED	RD	TROY SCHULTZ RPEQ 20631	 DEVELOPMENT ENGINEERS - ADVISORS ENQUIRIES@PEAKURBAN.COM.AU	SCALE 1:1000 10 0 10 20 30 40 50 A1 1:2000 HORIZONTAL A3 1:100 2 1 0 2 4 A1 1:200 VERTICAL A3	CLIENT KOPLICK DEVELOPMENTS PTY LTD ASSOCIATED CONSULTANT GOODROCK PROPERTY PH: 0423 557 882	PROJECT NAME PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2) 87 - 93 KOPLICK ROAD PARK RIDGE	DRAWING TITLE STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 PROJECT No. 18-0114 DRAWING No. 116 REVISION 5
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																																								
1	28.08.19	RD	RD	ORIGINAL ISSUE																																								
2	03.09.19	RD	RD	LONGSECTION AMENDED																																								
3	31.10.19	RD	RD	LINES 1 AND 2 AMENDED																																								
4	09.09.20	RD	RD	LONGSECTIONS AMENDED																																								
5	19.10.20	RD	RD	WATER SERVICE CROSSING LINE 2																																								
DRAWN	STATUS																																											
RD	NOT FOR CONSTRUCTION																																											
DESIGN	APPROVED																																											
RD	TROY SCHULTZ RPEQ 20631																																											

STRUCTURE NAME
STRUCTURE DESCRIPTION

STORMWATER STRUCTURE NOTE:
 STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
 CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
 STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
 CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
 STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
PILL EXTENDED MANHOLES:
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
RECTANGULAR STRUCTURE (SPECIAL):
 SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZEmm (Class) 750(2)
 PIPE GRADE % 1.00%
 PIPE SLOPE 1 in X 100.00
 FULL PIPE FLOW VELOCITY (m/s) 0.53
 PART FULL FLOW VELOCITY (m/s) 0.29

WATER LEVEL IN STRUCTURE	44.326	44.326
HYDRAULIC GRADE LEVEL	44.326	44.224
PIPE FLOW (Cumecs)	0.242	0.242
DEPTH TO INVERT	1.690	1.770
INVERT LEVEL OF DRAIN	42.848	42.815
DESIGN SURFACE LEVEL	44.538	44.585
SETOUT	E: 2029.587	N: 5072.416
RUNNING CHAINAGE	0.000	3.301



LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
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 OW/115/2019

LINE 7 8 9 10 11 12 13 14 2A

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	LONGSECTION AMENDED
3	31.10.19	RD	RD	LINE 2A AMENDED
4	09.09.20	RD	RD	LONGSECTIONS AMENDED

NOT FOR CONSTRUCTION

DESIGN APPROVED
 TROY SCHULTZ RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN
 DEVELOPMENT ENGINEERS + ADVISORS

ENQUIRIES@PEAKURBAN.COM.AU

SCALE

1:1000 10 0 10 20 30 40 50 A1
 1:2000 HORIZONTAL A3

1:100 2 1 0 2 4 A1
 1:200 VERTICAL A3

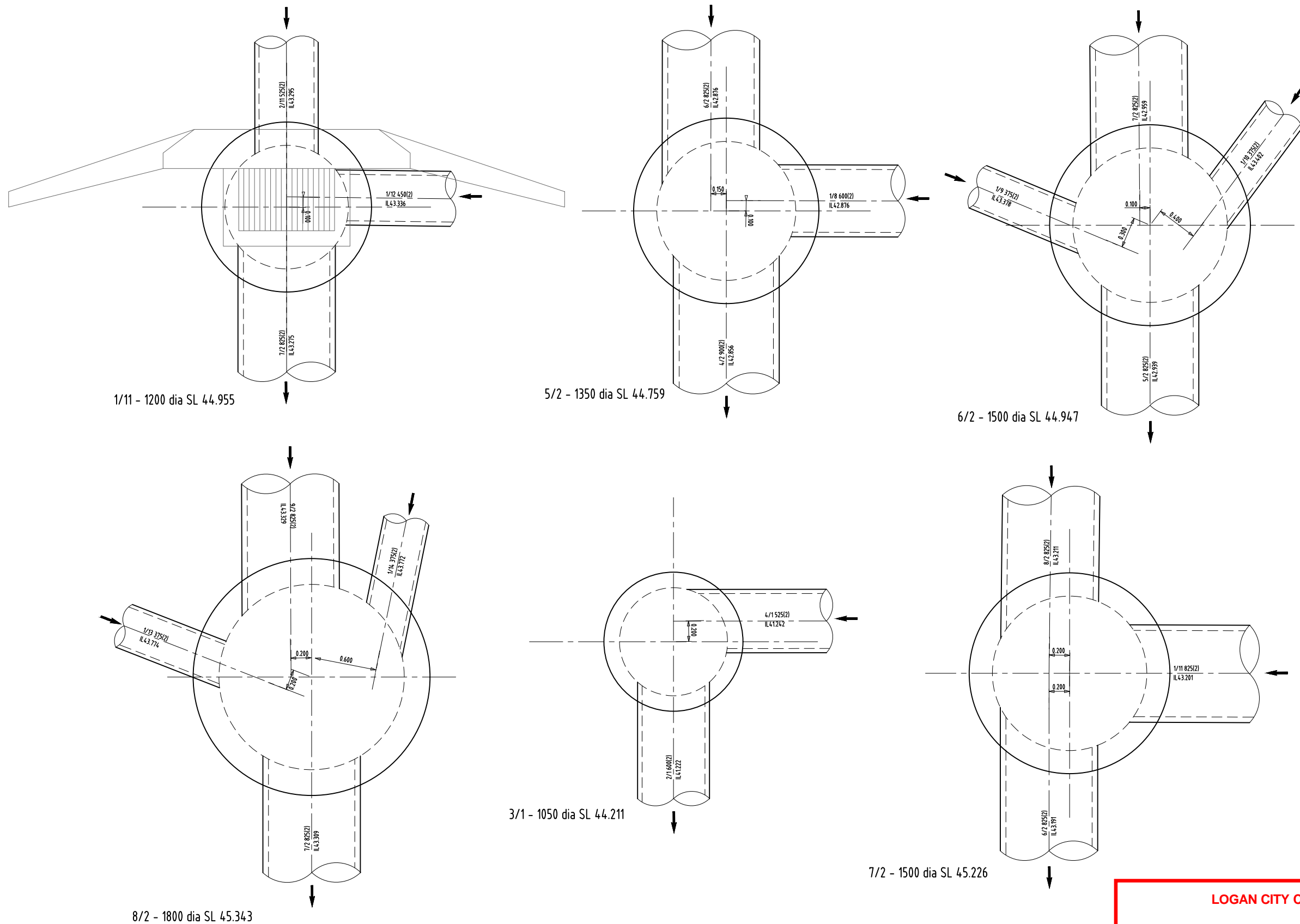
CLIENT
KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
 PARK RIDGE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2

PROJECT No. **18-0114** DRAWING No. **117** REVISION **4**

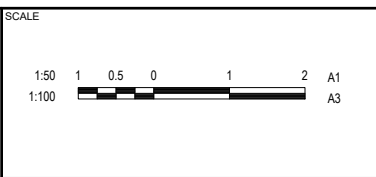


LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
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 OW/115/2019

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	STRUCTURES 3/1, 2/1 AND 1/1 AMENDED
3	31.10.19	RD	RD	STRUCTURE 3/1 SETOUT POINT ADDED
4	09.09.20	RD	RD	STRUCTURE DETAILS AMENDED

NOT FOR CONSTRUCTION

DRAWN: RD
 DESIGN: APPROVED TROY SCHULTZ RPEQ 20631
 FOR AND ON BEHALF OF PEAKURBAN PTY LTD



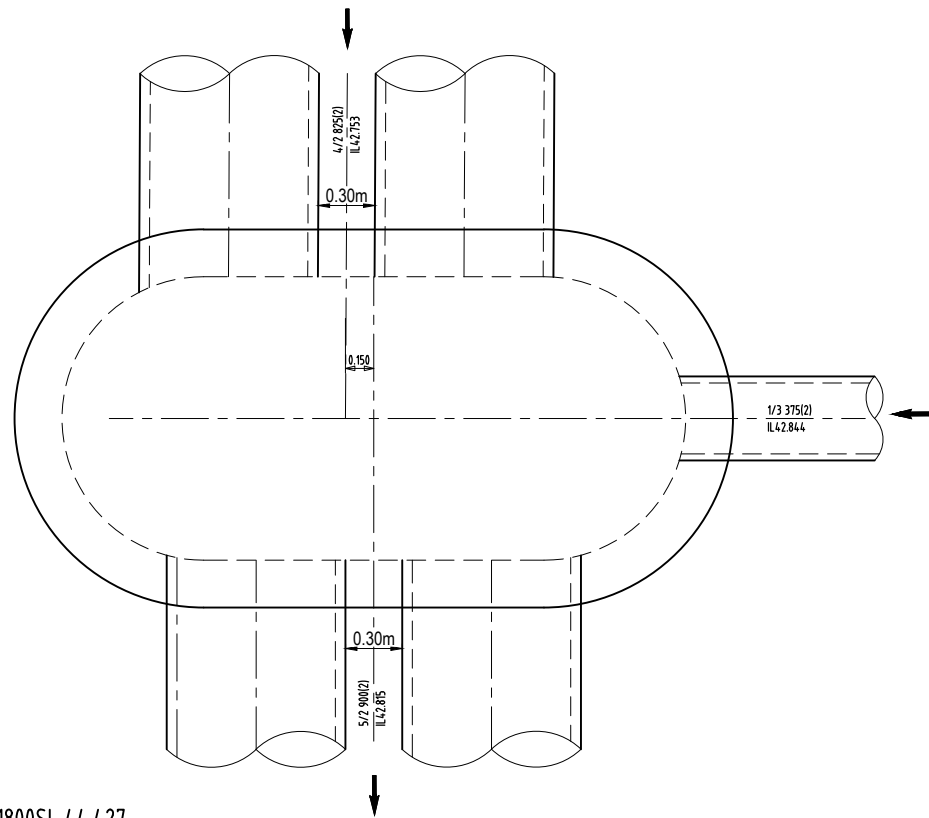
CLIENT: KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT: GOODROCK PROPERTY PH: 0423 557 882

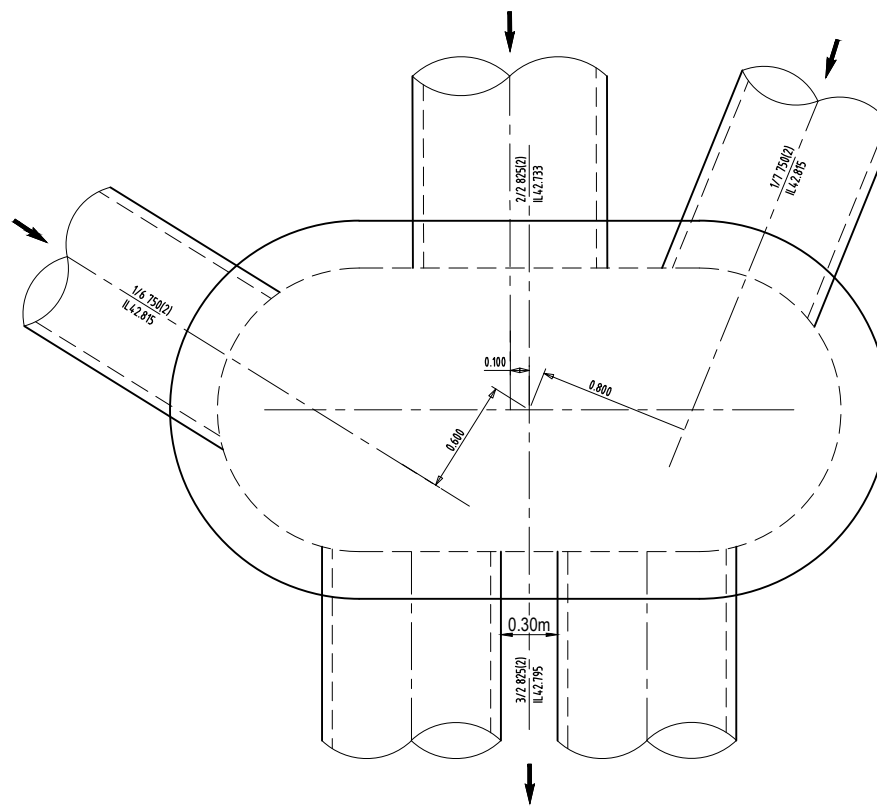
PROJECT NAME: PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)

87 - 93 KOPLICK ROAD PARK RIDGE

DRAWING TITLE: STORMWATER DRAINAGE STRUCTURE DETAILS SHEET 1		
PROJECT No. 18-0114	DRAWING No. 120	REVISION 4



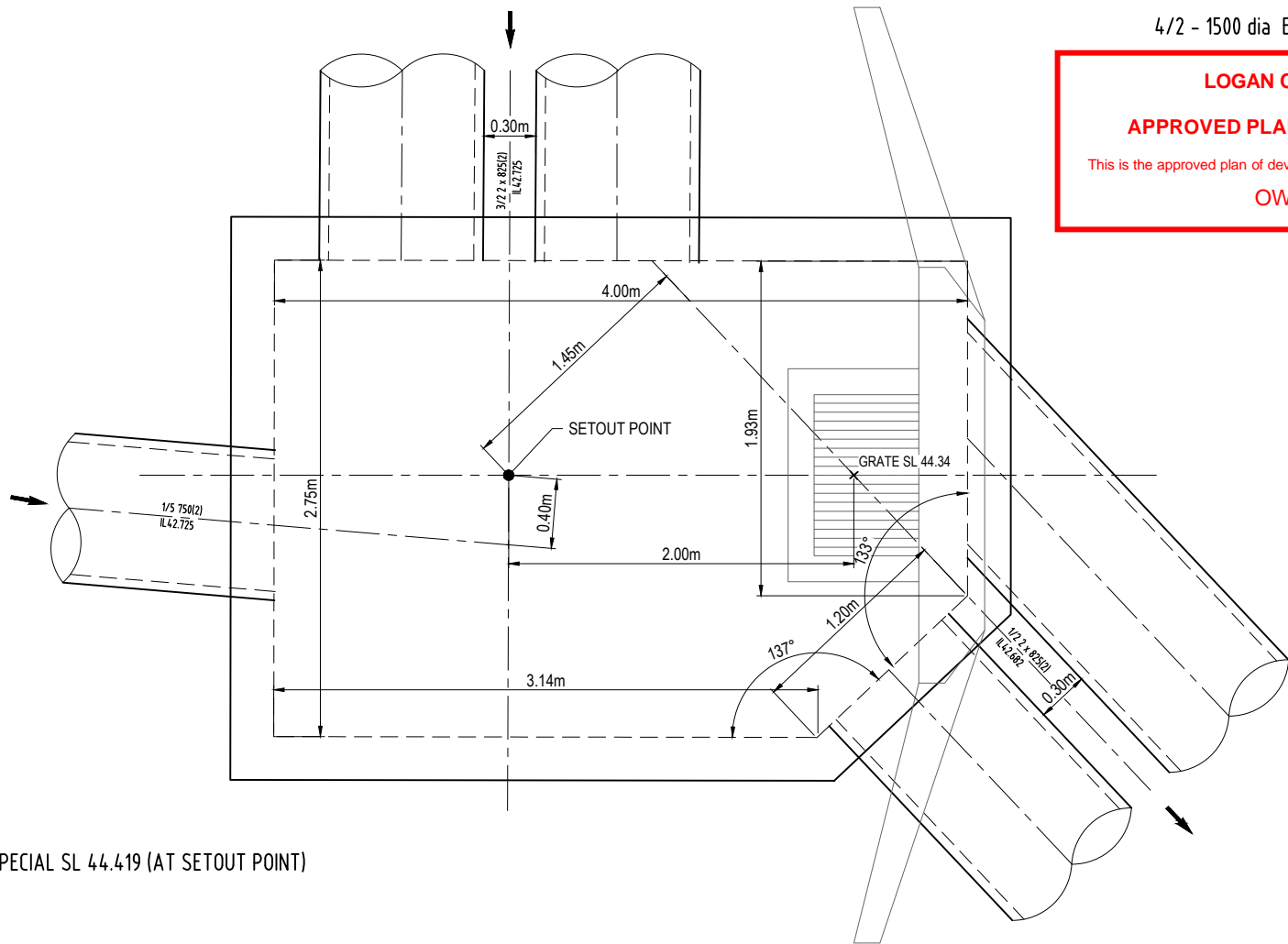
3/2 - 1500 dia EXT 1800SL 44.427



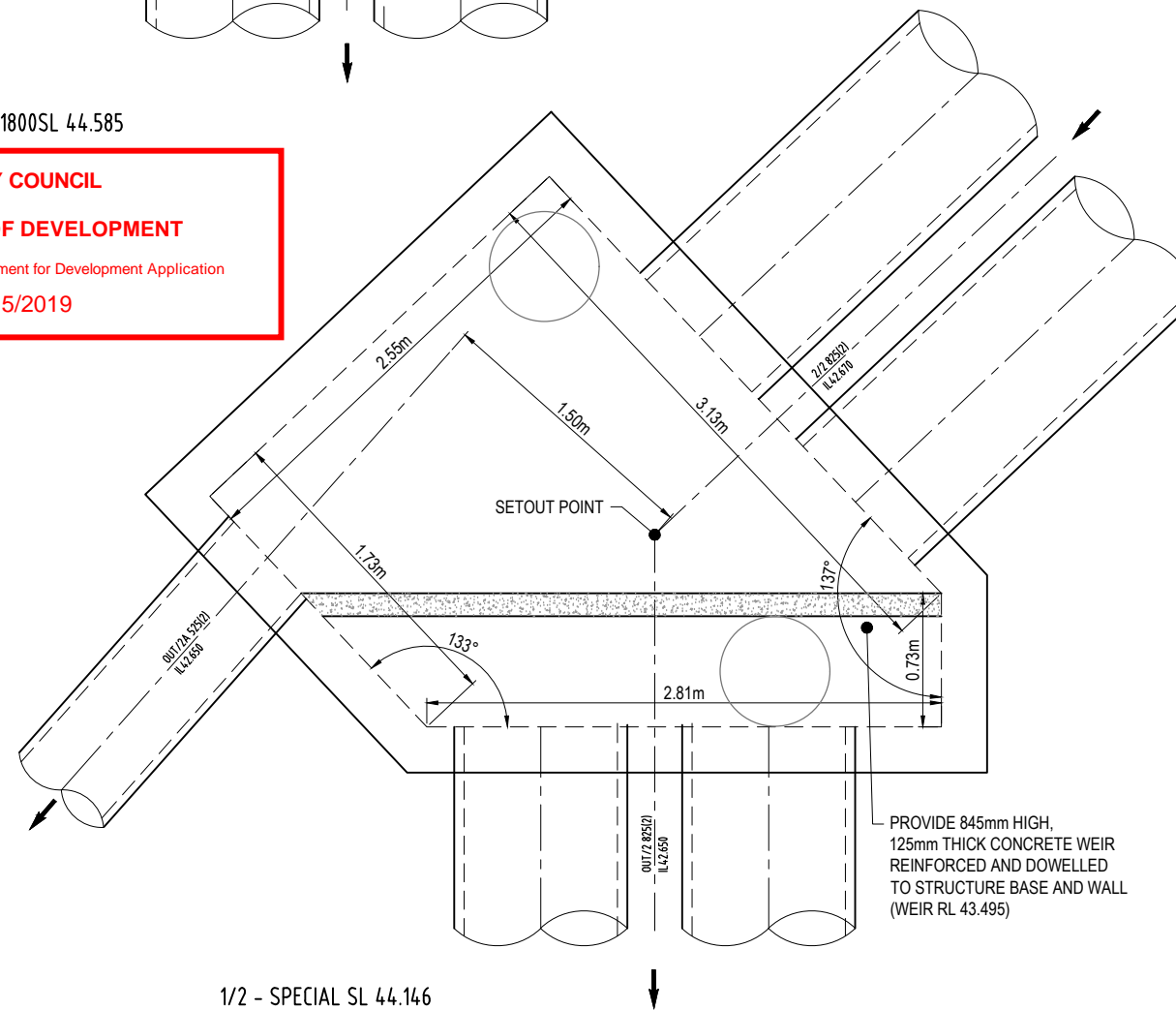
4/2 - 1500 dia EXT 1800SL 44.585

NOTE:
STRUCTURES 1/2, 2/2, 3/2 & 4/2 ARE TO BE DESIGNED AND CERTIFIED BY CONTRACTORS STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
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 OW/115/2019



2/2 - SPECIAL SL 44.419 (AT SETOUT POINT)



1/2 - SPECIAL SL 44.146

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	STRUCTURE 8/2 AMENDED
3	31.10.19	RD	RD	STRUCTURE 1/2 AMENDED
4	09.09.20	RD	RD	STRUCTURE DETAILS AMENDED

NOT FOR CONSTRUCTION

DRAWN: RD
 DESIGN: APPROVED TROY SCHULTZ RPEQ 20631
 FOR AND ON BEHALF OF PEAKURBAN PTY LTD

DEVELOPMENT ENGINEERS • ADVISORS
 ENQUIRIES@PEAKURBAN.COM.AU

SCALE

1:50 1 0.5 0 1 2 A1
1:100

CLIENT
KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT
GOODROCK PROPERTY
PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
87 - 93 KOPLICK ROAD
PARK RIDGE

DRAWING TITLE STORMWATER DRAINAGE STRUCTURE DETAILS SHEET 2		
PROJECT No. 18-0114	DRAWING No. 121	REVISION 4

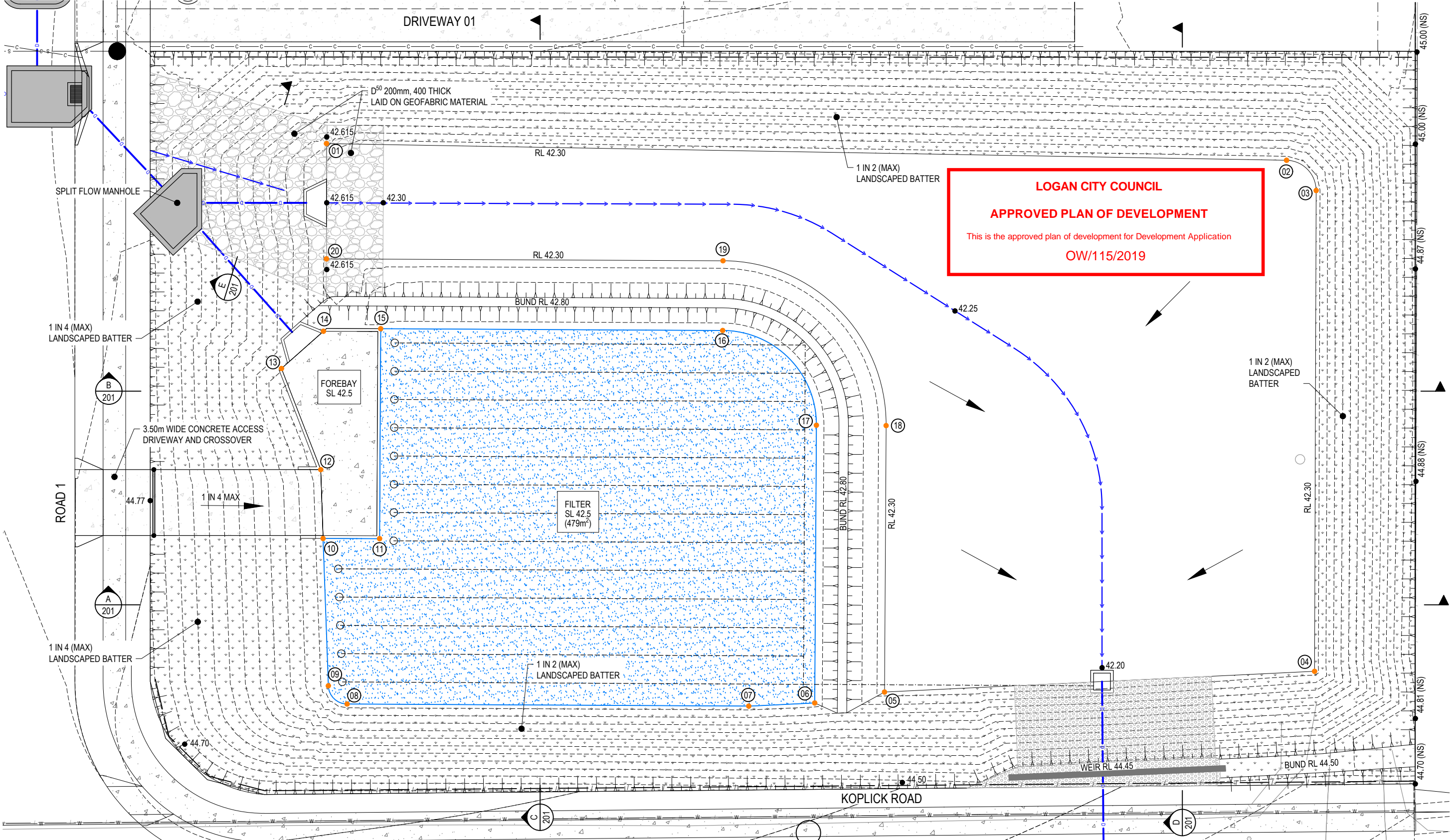
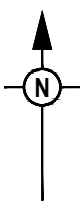
LEGEND

- 01 SETOUT POINT
- 44.47 PROPOSED FINISHED SURFACE LEVEL
- PROPOSED STORMWATER DRAINAGE PIPE
- - - PROPOSED 1000 SLOTTED SUB SOIL DRAINAGE PIPE AT 1.50m SPACINGS WITH CLEAN-OUT POINT
- - - PROPOSED 3000 UN-SLOTTED COLLECTOR PIPE
- PROPOSED BIO RETENTION FILTER AREA (479m² AS REQUIRED)
- PROPOSED PLANTED BATTER - BY LANDSCAPERS / CONTRACTOR
- PROPOSED ROCK SCOUR PROTECTION
- PROPOSED LOCK RAIL
- PROPOSED PEDESTRIAN SAFETY FENCE (POOL FENCE 1.80m HIGH)

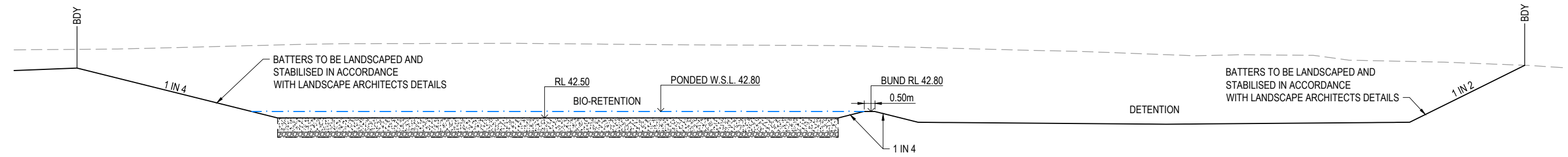
NOTE:
 BASIN DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT'S DRAWINGS AND DOCUMENTATION, SPECIFICALLY RELATING TO BARRIERS, FENCING, PLANTING AND VEGETATION.

BASIN SETOUT DATA

POINT	EASTING	NORTHING	POINT	EASTING	NORTHING
01	2042.939	5036.403	11	2045.759	5015.440
02	2093.883	5035.517	12	2042.637	5019.104
03	2095.456	5033.912	13	2040.553	5024.470
04	2095.371	5008.403	14	2042.781	5026.446
05	2072.552	5007.303	15	2045.817	5026.580
06	2068.848	5006.724	16	2063.962	5026.481
07	2065.349	5006.558	17	2068.936	5021.459
08	2044.034	5006.670	18	2072.636	5021.439
09	2043.040	5007.635	19	2063.981	5030.185
10	2042.759	5015.452	20	2042.939	5030.285

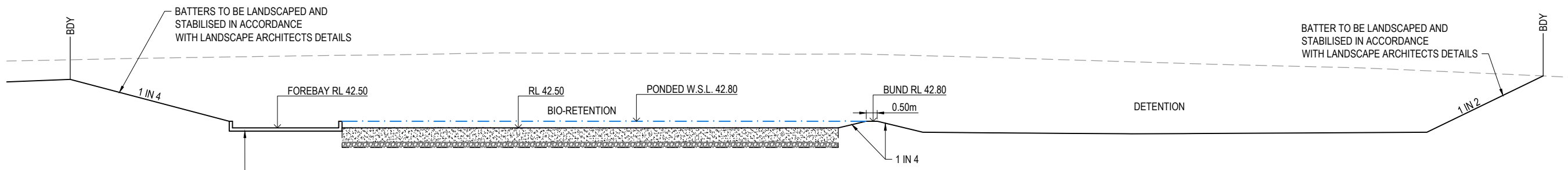


<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr><td>1</td><td>28.06.19</td><td>RD</td><td>RD</td><td>ORIGINAL ISSUE</td></tr> <tr><td>2</td><td>03.09.19</td><td>RD</td><td>RD</td><td>WALL ADDED TO SOUTH EASTERN CORNER</td></tr> <tr><td>3</td><td>31.10.19</td><td>RD</td><td>RD</td><td>BASIN AMENDED</td></tr> <tr><td>4</td><td>09.09.20</td><td>RD</td><td>RD</td><td>BASIN AMENDED</td></tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	1	28.06.19	RD	RD	ORIGINAL ISSUE	2	03.09.19	RD	RD	WALL ADDED TO SOUTH EASTERN CORNER	3	31.10.19	RD	RD	BASIN AMENDED	4	09.09.20	RD	RD	BASIN AMENDED	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">NOT FOR CONSTRUCTION</td> <td style="text-align: center;">PEAKURBAN DEVELOPMENT ENGINEERS • ADVISORS</td> </tr> <tr> <td style="text-align: center;">DESIGN APPROVED TROY SCHULTZ RPEQ 20631</td> <td style="text-align: center;">ENQUIRIES@PEAKURBAN.COM.AU</td> </tr> </table>	NOT FOR CONSTRUCTION	PEAKURBAN DEVELOPMENT ENGINEERS • ADVISORS	DESIGN APPROVED TROY SCHULTZ RPEQ 20631	ENQUIRIES@PEAKURBAN.COM.AU	<p>SCALE</p> <p>1:100 1 0 1 2 3 4 5 A1</p> <p>1:200 1 0 1 2 3 4 5 A3</p>	<p>CLIENT</p> <p>KOPLICK DEVELOPMENTS PTY LTD</p> <p>ASSOCIATED CONSULTANT GOODROCK PROPERTY PH: 0423 557 882</p>	<p>PROJECT NAME</p> <p>PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)</p> <p>87 - 93 KOPLICK ROAD PARK RIDGE</p>	<p>DRAWING TITLE</p> <p>BIO RETENTION / DETENTION BASIN LAYOUT PLAN</p> <p>PROJECT No. 18-0114</p> <p>DRAWING No. 200</p> <p>REVISION 4</p>
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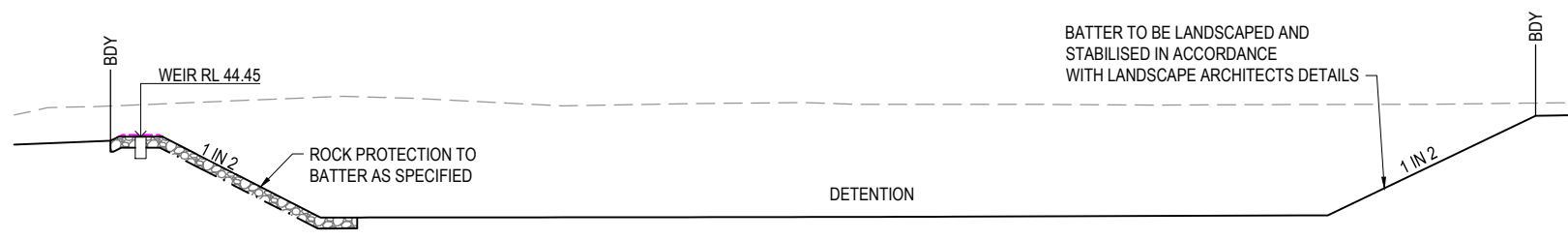


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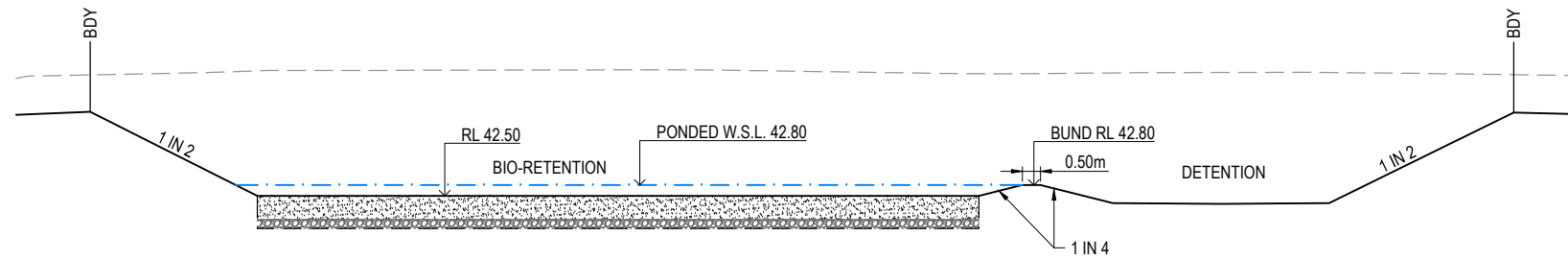
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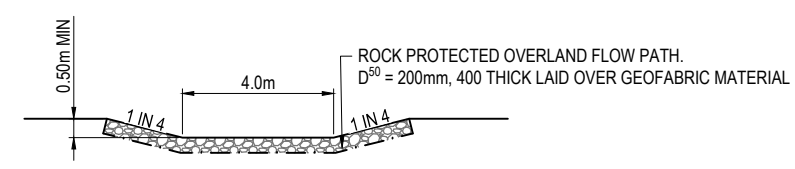
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SCALE 1:200 (A3)



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SECTION D
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SCALE 1:200 (A3)



RL 40.0
SECTION C
SCALE 1:100 (A1)
SCALE 1:200 (A3)



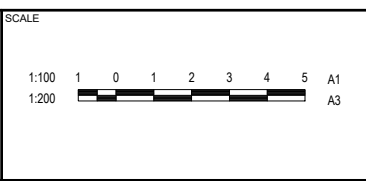
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REV	DATE	DESIGN	DRAWN	REVISION DETAILS
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2	03.09.19	RD	RD	SUBSOIL COLLECTOR PIPES
3	31.10.19	RD	RD	SECTIONS AMENDED
4	09.09.20	RD	RD	SECTIONS AMENDED

NOT FOR CONSTRUCTION

DESIGN APPROVED
TROY SCHULTZ RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD



CLIENT
KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT
GOODROCK PROPERTY
PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
87 - 93 KOPLICK ROAD
PARK RIDGE

DRAWING TITLE		
BIO RETENTION / DETENTION TYPICAL SECTIONS		
PROJECT No.	DRAWING No.	REVISION
18-0114	201	4

GENERAL NOTES:

1. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
2. THE EXISTING SERVICES THAT ARE SHOWN ON THE DRAWINGS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR INFORMATION THAT HAS BEEN SUPPLIED BY OTHERS, OR ANY EXISTING SERVICES THAT MAY BE PRESENT NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE POSITION OF ANY UNDERGROUND SERVICES WITHIN THE AREAS OF WORKS AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
3. ALL CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
4. PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
5. THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
7. THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS.
8. THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.
9. **HOLD POINT:** ONCE THE BASE OF MANHOLES, INSPECTION PITS, GULLIES AND FIELD INLETS FOR STORMWATER DRAINAGE AND SEWER RETICULATION HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
10. THE CONTRACTOR SHALL NOTE DURING THE COURSE OF THE WORKS WHEN JOINT INSPECTIONS WITH THE AUTHORITY AND THE SUPERINTENDENT ARE REQUIRED. THESE INCLUDE PRE-STARTS, SUBGRADES, PRE-SEALS, CLEARING, AND OTHER SUCH INSPECTIONS AS NOMINATED IN THE APPROVAL AND THE SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE NO WORKS PROCEED PAST THE INSPECTION POINT UNTIL THE JOINT INSPECTION HAS BEEN SUCCESSFULLY COMPLETED.

SEWERAGE RETICULATION NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
4. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE SEQ SERVICE PROVIDER AT THE DEVELOPER'S COST.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
6. EACH ALLOTMENT SHALL BE SERVED BY A 100Ø PVC PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A 150Ø PVC PROPERTY CONNECTION SHALL BE PROVIDED.
7. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
8. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 500mm AND A MAXIMUM OF 750mm.
9. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S.1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
10. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE DRG SEQ-SEW-1206-1 AND 1207-1.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
12. SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE SEQ SEWER CODE.
13. BENCH MARK AND LEVELS TO AHD.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

- A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

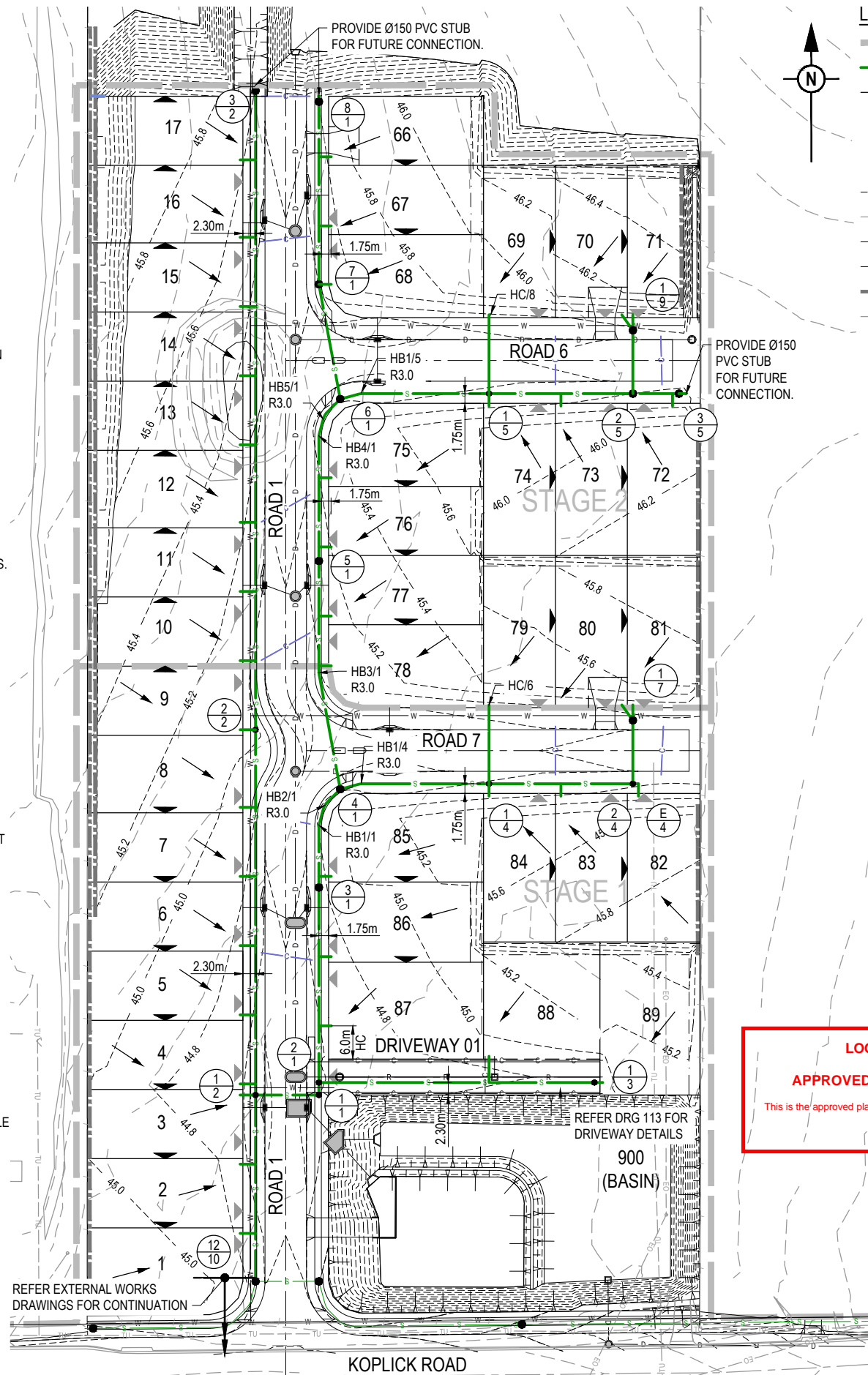
- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

CREEK CROSSINGS

- A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- C. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.



LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED SEWERAGE MAIN
- - - EXISTING SEWERAGE MAIN
- 24.60 SEWER LOT CONTROL SURFACE LEVEL
- ↑ INDICATIVE DRIVEWAY LOCATION
- - -24.6- - - ZERO LOT BOUNDARY
- - -24.6- - - PROPOSED SURFACE CONTOUR
- - -24.6- - - EXISTING SURFACE CONTOUR
- - - D - - - PROPOSED STORMWATER DRAINAGE PIPE
- - - W - - - PROPOSED WATER MAIN
- - - PROPOSED RETAINING WALL
- - - E0 - - - EXISTING ELECTRICAL CABLE O/H

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES



THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5m UNLESS OTHERWISE STATED. FOR JUNCTION DETAILS REFER SEQ-SEW-1104-1 AND SEQ-SEW-1105-1.

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 362 128

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REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
1	28.08.19	RD	RD	ORIGINAL ISSUE	RD	NOT FOR CONSTRUCTION	1:500 1:1000	KOPLUCK DEVELOPMENTS PTY LTD	PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)	SEWERAGE RETICULATION INTERNAL WORKS LAYOUT PLAN	18-0114	300	7
2	03.09.19	RD	RD	SEWER LAYOUT AMENDED									
3	31.10.19	RD	RD	SEWER BASIN AMENDED									
4	11.06.20	RD	RD	LINE 7 AND 9 AMENDED	RD	RPEQ 20631	1:500 1:1000	GOODROCK PROPERTY PH: 0423 557 882	87 - 93 KOPLICK ROAD PARK RIDGE				
5	18.06.20	RD	RD	STRUCTURE RENAMED									
6	09.09.20	RD	RD	LAYOUT AMENDED									
7	19.10.20	RD	RD	LINE 3 ADDED, LINE 1 STRUCTURE NAMES									
 APPROVED TROY SCHULTZ							 DEVELOPMENT ENGINEERS - ADVISORS						
FOR AND ON BEHALF OF PEAKURBAN PTY LTD							ENQUIRIES@PEAKURBAN.COM.AU						

STRUCTURE / BEND / END NAME
STRUCTURE TYPE
STRUCTURE LID TYPE
STRUCTURE DROP TYPE
JUNCTION LINE
DEPTH TO HC
HC INVERT LEVEL
HC TYPE
HC LOT No
CH. FROM D/S STRUC / BEND

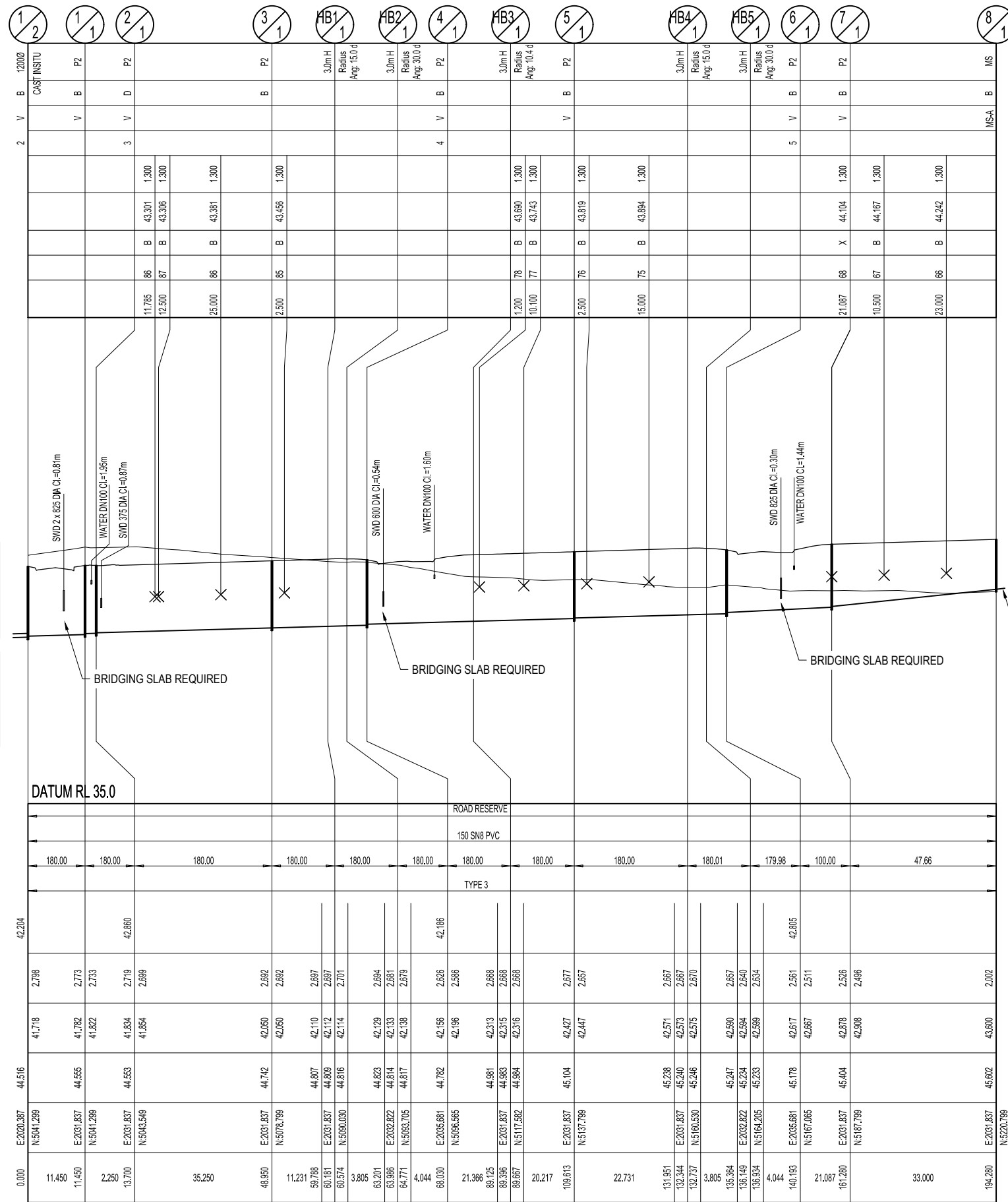
STRUCTURE TYPES
 MS = TYPE 'J1' MAINTENANCE SHAFT
 P2 = CONCRETE DN1050
 MS DROP TYPES:
 MS-A = 20mm DROP THROUGH BULB
 MS-B = >750mm DROP INTO RISER
LID TYPES
 B = NON-TRAFFICABLE
 D = TRAFFICABLE
 D(BD) = TRAFFICABLE WITH BOLT DOWN

EMBEDMENT NOTE:
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LAND USE
DIAMETER
GRADE
EMBEDMENT
JUNCTION INVERT LEVEL
DEPTH TO INVERT
SEWER INVERT LEVEL
DESIGN SURFACE LEVEL
SETOUT
RUNNING CHAINAGE

LINE



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	LONGSECTION AMENDED
3	09.09.20	RD	RD	LONGSECTION AMENDED
4	19.10.20	RD	RD	LINE 1 AMENDED

NOT FOR CONSTRUCTION

DESIGN APPROVED
 TROY SCHULTZ
 RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN
 DEVELOPMENT ENGINEERS + ADVISORS

ENQUIRIES@PEAKURBAN.COM.AU

SCALE

1:500 10 5 0 10 20 A1
 1:1000 HORIZONTAL A3

1:100 2 1 0 2 4 A1
 1:200 VERTICAL A3

CLIENT
KOPLICK DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)

87 - 93 KOPLICK ROAD
 PARK RIDGE

DRAWING TITLE
SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1

PROJECT No. **18-0114** DRAWING No. **301** REVISION **4**

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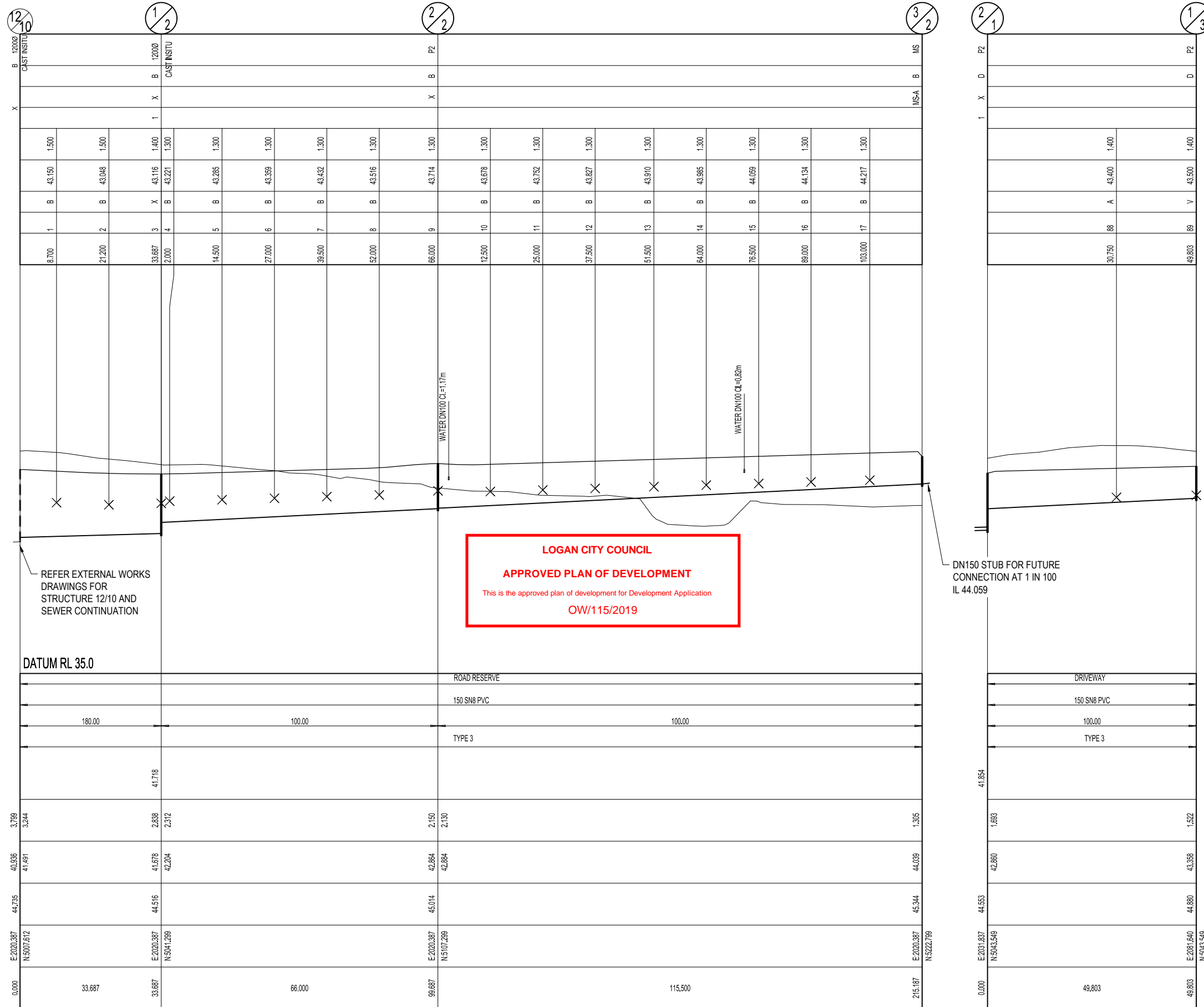
STRUCTURE / BEND / END NAME
STRUCTURE TYPE
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LINE 2 3

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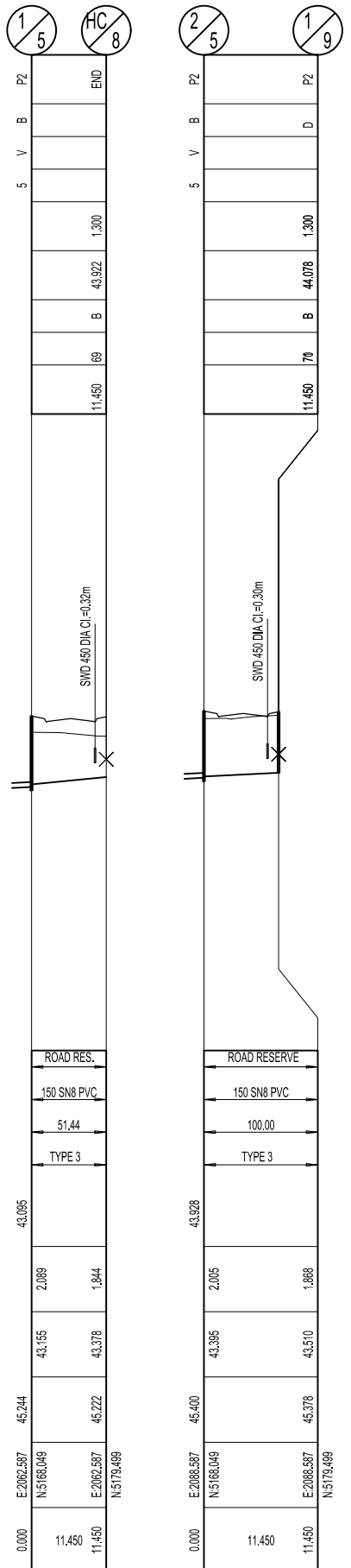
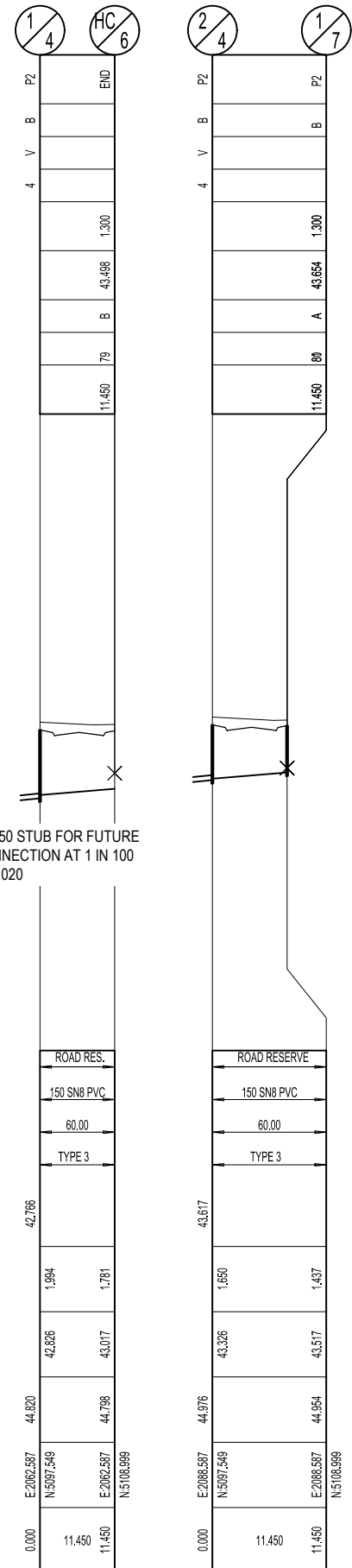
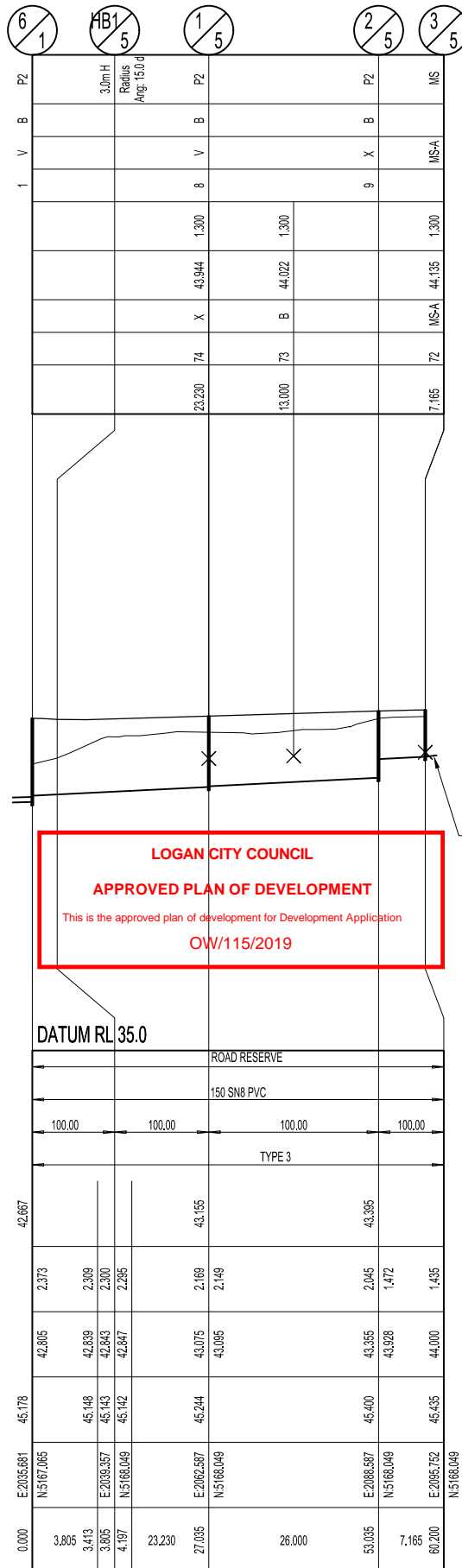
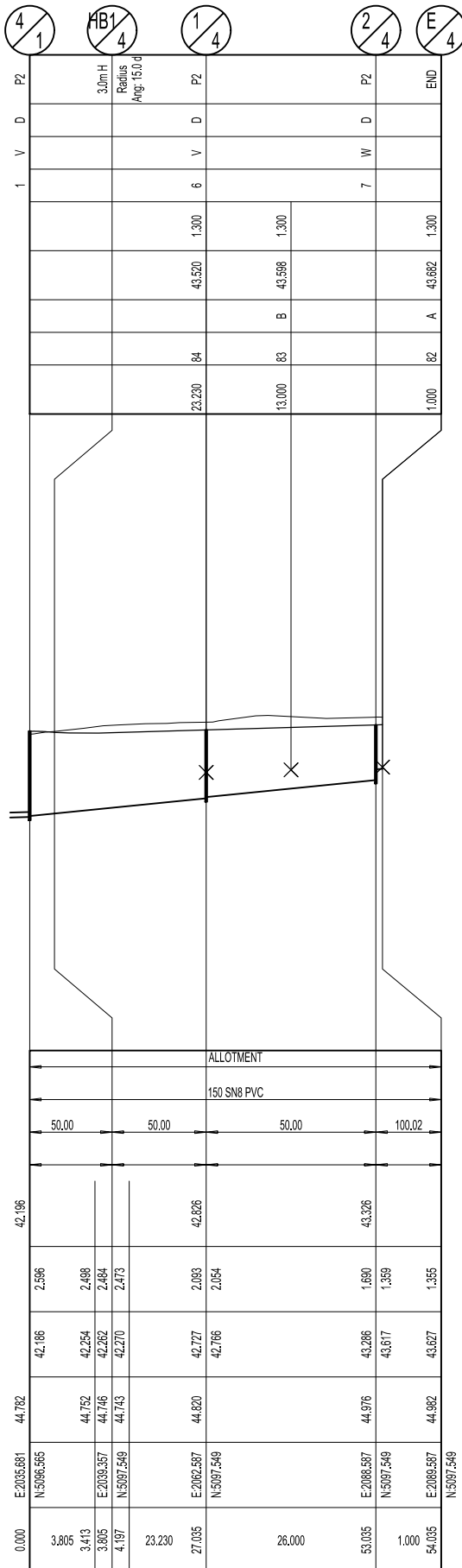
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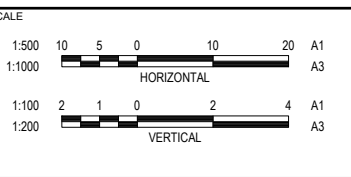


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 OW/115/2019

DN150 STUB FOR FUTURE CONNECTION AT 1 IN 100 IL44.020

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.06.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	LONGSECTION AMENDED
3	11.08.20	RD	RD	LINES 7 AND 9 AMENDED
4	18.06.20	RD	RD	COVER TYPES ADDED TO 1/7 & 1/9
5	09.09.20	RD	RD	LONGSECTIONS AMENDED
6	19.10.20	RD	RD	STRUCTURE NAMES AMENDED

DRAWN	STATUS
RD	NOT FOR CONSTRUCTION
DESIGN	APPROVED
RD	TROY SCHULTZ RPEQ 20631
FOR AND ON BEHALF OF PEAKURBAN PTY LTD	



CLIENT
KOPLICK DEVELOPMENTS PTY LTD
 ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)
 87 - 93 KOPLICK ROAD
 PARK RIDGE

DRAWING TITLE		
SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 3		
PROJECT No.	DRAWING No.	REVISION
18-0114	303	6

GENERAL NOTES:

1. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
2. THE EXISTING SERVICES THAT ARE SHOWN ON THE DRAWINGS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR INFORMATION THAT HAS BEEN SUPPLIED BY OTHERS, OR ANY EXISTING SERVICES THAT MAY BE PRESENT NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE POSITION OF ANY UNDERGROUND SERVICES WITHIN THE AREAS OF WORKS AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
3. ALL CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION.
4. PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
5. THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
7. THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS.
8. THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.
9. HOLD POINT: ONCE THE BASE OF MANHOLES, INSPECTION PITS, GULLIES AND FIELD INLETS FOR STORMWATER DRAINAGE AND SEWER RETICULATION HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS.
10. THE CONTRACTOR SHALL NOTE DURING THE COURSE OF THE WORKS WHEN JOINT INSPECTIONS WITH THE AUTHORITY AND THE SUPERINTENDENT ARE REQUIRED. THESE INCLUDE PRE-STARTS, SUBGRADES, PRE-SEALS, CLEARING, AND OTHER SUCH INSPECTIONS AS NOMINATED IN THE APPROVAL AND THE SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE NO WORKS PROCEED PAST THE INSPECTION POINT UNTIL THE JOINT INSPECTION HAS BEEN SUCCESSFULLY COMPLETED.

WATER RETICULATION NOTES

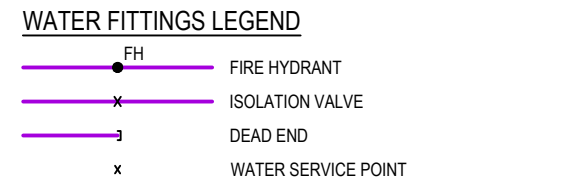
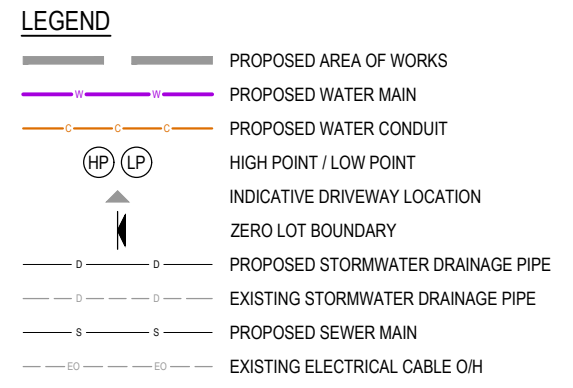
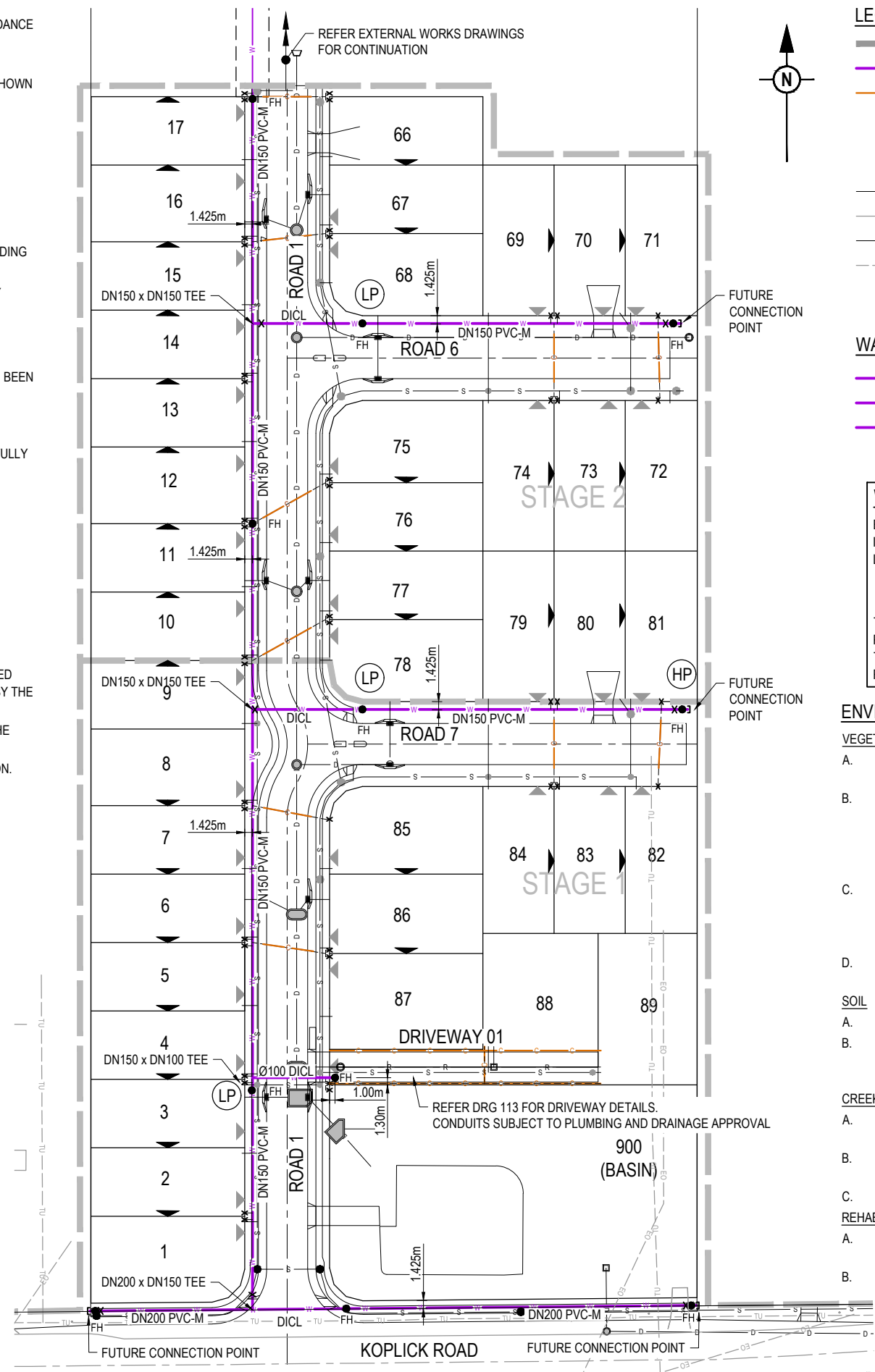
1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP.
7. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY THE SEQ-SP.
8. TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING No. SEQ-WAT-1410-1, AT THE END OF ALL NEW MAINS BEFORE THE SCOUR VALVE AND WHERE REQUIRED FOR COMMISSIONING PURPOSES.
9. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.

LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
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ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 362 128

ALL ROAD CROSSINGS TO BE DICL PN35



WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

- ENVIRONMENTAL CONDITIONS**
- VEGETATION PROTECTION**
- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
 - WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
 - TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
 - ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

- SOIL**
- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
 - CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

- CREEK CROSSINGS**
- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
 - APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
 - NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

- REHABILITATION**
- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
 - PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	28.08.19	RD	RD	ORIGINAL ISSUE
2	03.09.19	RD	RD	WATER MAIN SIZE AMENDMENTS
3	31.10.19	RD	RD	BASEIN AMENDED, WATER MAIN SIZE IN KOPLICK ROAD
4	11.06.20	RD	RD	TEE SIZES AMENDED
5	18.06.20	RD	RD	ROAD NAME AMENDED
6	09.09.20	RD	RD	LAYOUT AMENDED
7	19.10.20	RD	RD	HYDRANT AND CROSS ROAD MAIN ADDED, CROSS ROAD CONDUIT REMOVED

NOT FOR CONSTRUCTION

DESIGN APPROVED
 TROY SCHULTZ
 RPEQ 20631

FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN
 DEVELOPMENT ENGINEERS • ADVISORS

ENQUIRIES@PEAKURBAN.COM.AU

SCALE
 1:500 10 5 0 10 20 A1
 1:1000

CLIENT
KOPLICK DEVELOPMENTS PTY LTD

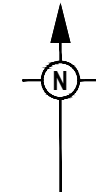
ASSOCIATED CONSULTANT
 GOODROCK PROPERTY
 PH: 0423 557 882

PROJECT NAME
PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)

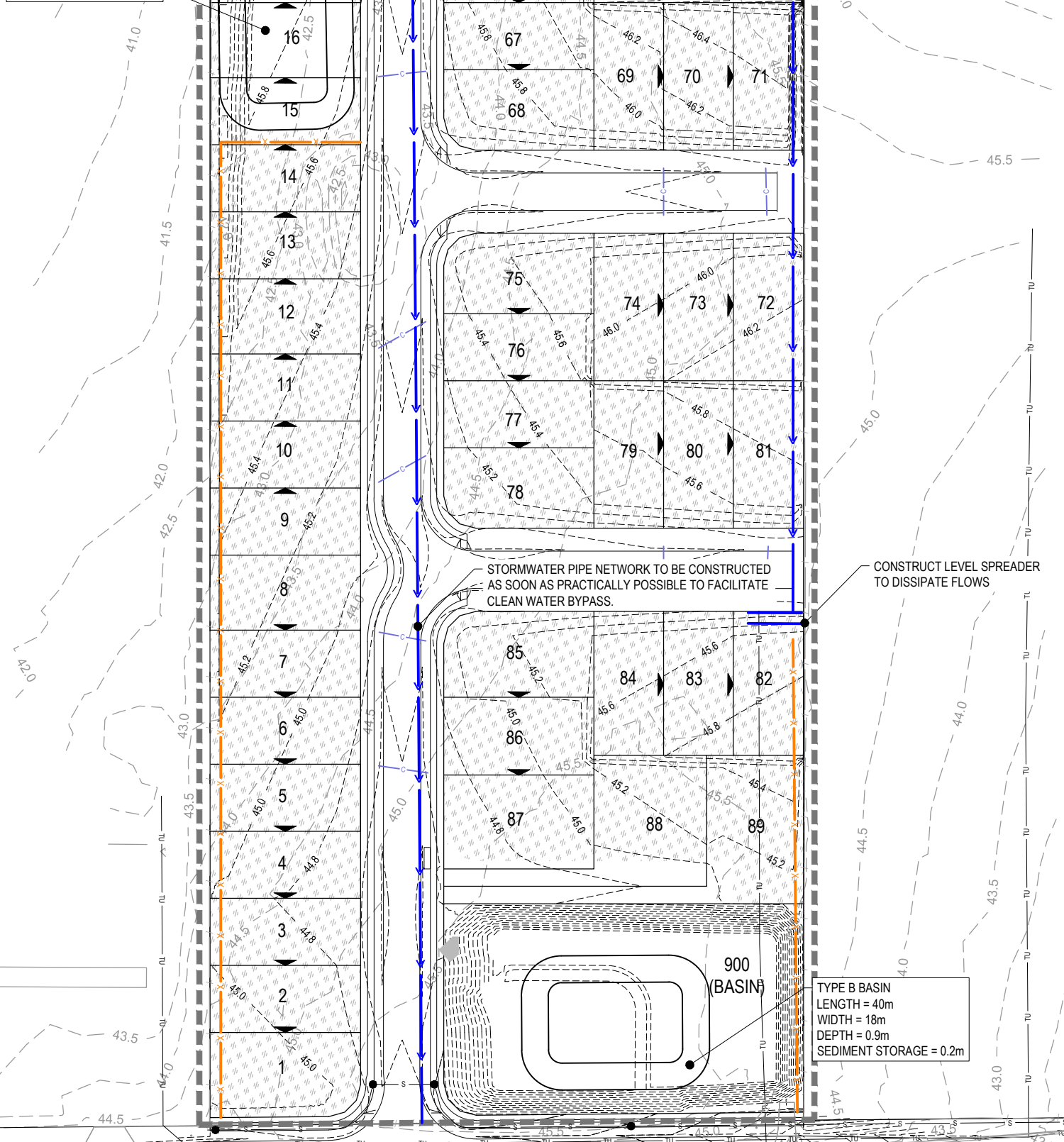
87 - 93 KOPLICK ROAD
 PARK RIDGE

DRAWING TITLE
WATER RETICULATION INTERNAL WORKS LAYOUT PLAN

PROJECT No. **18-0114** DRAWING No. **304** REVISION **7**



TYPE B BASIN
 LENGTH = 40m
 WIDTH = 18m
 DEPTH = 0.9m
 SEDIMENT STORAGE = 0.2m



STORMWATER PIPE NETWORK TO BE CONSTRUCTED AS SOON AS PRACTICALLY POSSIBLE TO FACILITATE CLEAN WATER BYPASS.

CONSTRUCT LEVEL SPREADER TO DISSIPATE FLOWS

TYPE B BASIN
 LENGTH = 40m
 WIDTH = 18m
 DEPTH = 0.9m
 SEDIMENT STORAGE = 0.2m

Sediment Basin Sizing - Basin A and B	
Q1 Flow	0.114 m ³ /s
Design Discharge (Q)	0.06 m ³ /s
Sediment Settlement Coefficient (Ks) *	12000.00
Settling Zone - Average Area (As)	684.00
Settling Zone Depth (Ds)	0.68 m
Critical Settling Zone Length (Ls)	81.00 m
Adopted Settling Zone Length	40.00
Settling Zone Width (Ws)	17.10 m
Flow Velocity of Clear Water Supernatant (vc)	0.004901961
Sediment Storage Depth (Dss)	0.2 m
Total Depth	0.88 m

* To be confirmed with Jar Test prior to construction commencement

NOTE:
 BOTH BASIN LOCATIONS SHOWN TO BE UTILISED DURING DIFFERENT PHASES OF WORKS. THE NORTHERN IS INTENDED FOR EARLY PHASES OF CONSTRUCTION, UNTIL SUCH TIME EARTHWORKS LEVELS CAN FACILITATE RUNOFF TO BE DIRECTED TO THE SOUTHERN BASIN

NOTE:
 ROADS ARE TO BE TEMPORARILY STABILISED WITH AN APPROVED PRODUCT AND TO THE SATISFACTION OF THE SUPERINTENDENT

NOTE:
 THE DESIGN INFORMATION SHOWN ON THIS DRAWING IS A CONCEPTUAL GUIDE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PLANNING, DESIGN (INCLUDING CPESC CERTIFICATION), IMPLEMENTATION AND MAINTENANCE OF AN EROSION AND SEDIMENT CONTROL PLAN THAT IS COMPLIANT WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) GUIDELINE 'BEST PRACTICE EROSION AND SEDIMENT CONTROL' AND RELEVANT COUNCIL POLICIES.

NOTE:
 TYPE B BASINS HAVE BEEN ADOPTED FOR THIS CONCEPT DESIGN, HOWEVER THE PRINCIPAL CONTRACTOR CAN ADOPT A TYPE A BASIN DESIGN IN LIEU OF THIS IF DEEMED APPROPRIATE.

LOGAN CITY COUNCIL
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LEGEND

----- 24.6 -----	PROPOSED CONTOUR (0.2m INTERVAL)
----- 24.6 -----	EXISTING CONTOUR (0.5m INTERVAL)
→	PROPOSED CLEAN WATER DRAIN
—x—x—x—	PROPOSED SEDIMENT FENCE
▨	PROPOSED AREA OF SURFACE STABILISATION
-----	INDICATIVE BASIN CATCHMENT

REV A	DATE 21.04.20	DESIGN RD	DRAWN RD	ISSUED FOR CONSTRUCTION	REVISION DETAILS	DRAWN RD	STATUS ISSUED FOR CONSTRUCTION	 DEVELOPMENT ENGINEERS • ADVISORS ENQUIRIES@PEAKURBAN.COM.AU	SCALE 1:500 1:1000	CLIENT KOPLIK DEVELOPMENTS PTY LTD	PROJECT NAME PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)	DRAWING TITLE CONCEPT EROSION AND SEDIMENT CONTROL LAYOUT PLAN
						DESIGN RD	APPROVED TROY SCHULTZ RPEQ 20631 FOR AND ON BEHALF OF PEAKURBAN PTY LTD		ASSOCIATED CONSULTANT GOODROCK PROPERTY PH: 0423 557 882	PROJECT No. 18-0114	DRAWING No. 400	REVISION A

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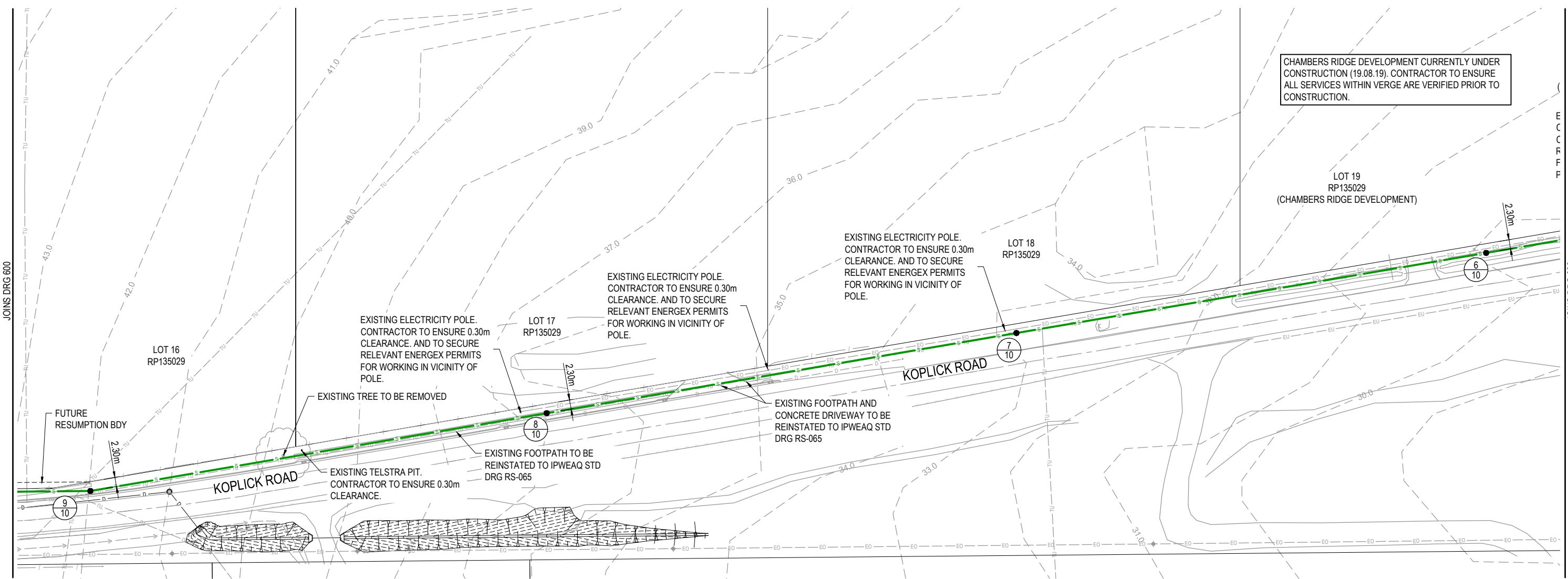
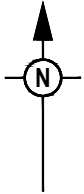
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ALL CLEARANCES TO EXISTING SERVICES TO COMPLY WITH TABLE 4.2, SECTION 4.4.5.2 SEQ WS&S D&C CODE AMENDMENT TO WSA

LEGEND

	PROPOSED SEWERAGE MAIN
	EXISTING SEWERAGE MAIN
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	PROPOSED STORMWATER DRAINAGE PIPE
	PROPOSED WATER MAIN
	EXISTING STORMWATER DRAINAGE PIPE
	EXISTING WATER MAIN
	EXISTING ELECTRICAL CABLE O/H
	EXISTING ELECTRICAL UNDERGROUND
	EXISTING TELSTRA UNDERGROUND
	EXISTING GAS MAINS



CHAMBERS RIDGE DEVELOPMENT CURRENTLY UNDER CONSTRUCTION (19.08.19). CONTRACTOR TO ENSURE ALL SERVICES WITHIN VERGE ARE VERIFIED PRIOR TO CONSTRUCTION.

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
1	23.08.19	RD	RD	ORIGINAL ISSUE	RD	NOT FOR CONSTRUCTION	 ENQUIRIES@PEAKURBAN.COM.AU	1:500 1:1000	KOPLICK DEVELOPMENTS PTY LTD ASSOCIATED CONSULTANT GOODROCK PROPERTY PH: 0423 557 882	PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2) 87 - 93 KOPLICK ROAD PARK RIDGE	SEWERAGE RETICULATION EXTERNAL WORKS LAYOUT PLAN SHEET 2 PROJECT No. 18-0114 DRAWING No. 601 REVISION 2
2	11.06.20	RD	RD	CLEARANCE NOTE ADDED	RD	APPROVED TROY SCHULTZ RPEQ 20631 FOR AND ON BEHALF OF PEAKURBAN PTY LTD					

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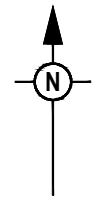
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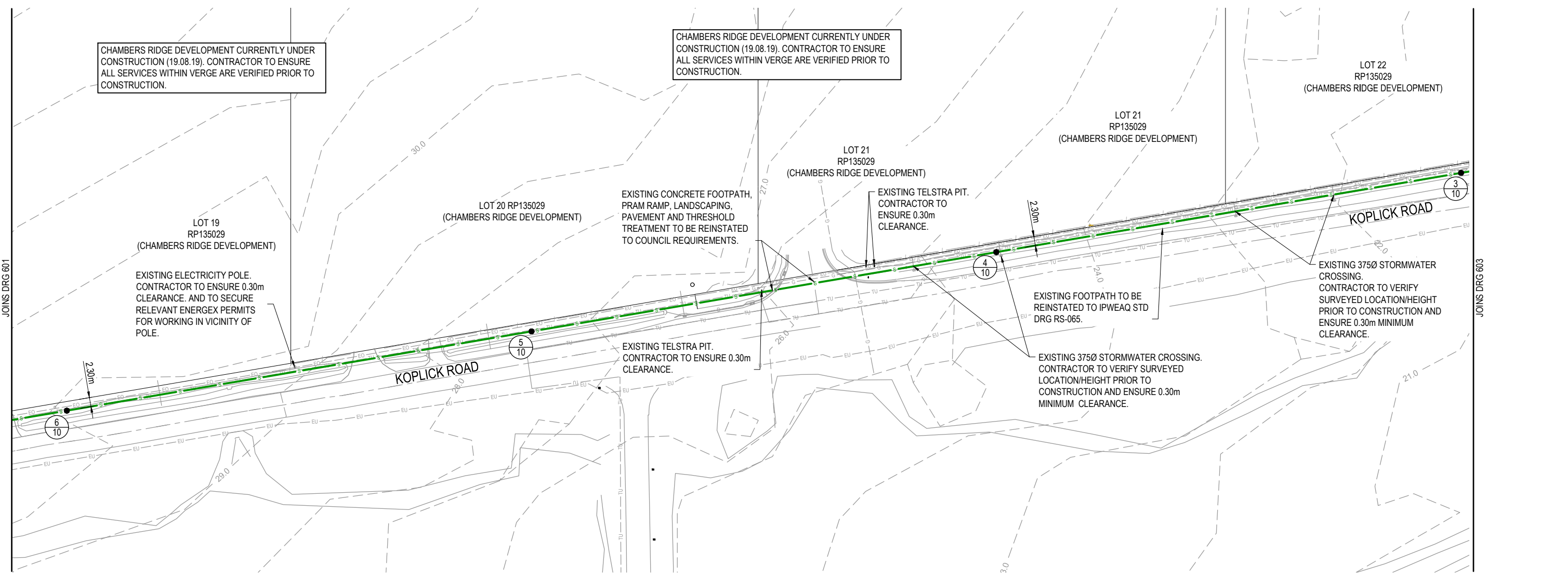
	PROPOSED SEWERAGE MAIN
	EXISTING SEWERAGE MAIN
	PROPOSED SURFACE CONTOUR
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	PROPOSED STORMWATER DRAINAGE PIPE
	PROPOSED WATER MAIN
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	EXISTING ELECTRICAL UNDERGROUND
	EXISTING TELSTRA UNDERGROUND
	EXISTING GAS MAINS



LOGAN CITY COUNCIL

APPROVED PLAN OF DEVELOPMENT

This is the approved plan of development for Development Application
OW/115/2019



<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESIGN</th> <th>DRAWN</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>23.08.19</td> <td>RD</td> <td>RD</td> <td>ORIGINAL ISSUE</td> </tr> <tr> <td>2</td> <td>11.06.20</td> <td>RD</td> <td>RD</td> <td>CLEARANCE NOTE ADDED</td> </tr> </tbody> </table>	REV	DATE	DESIGN	DRAWN	REVISION DETAILS	1	23.08.19	RD	RD	ORIGINAL ISSUE	2	11.06.20	RD	RD	CLEARANCE NOTE ADDED	<table border="1"> <tr> <td>DRAWN</td> <td>STATUS</td> </tr> <tr> <td>RD</td> <td>NOT FOR CONSTRUCTION</td> </tr> <tr> <td>DESIGN</td> <td>APPROVED TROY SCHULTZ RPEQ 20631</td> </tr> <tr> <td>RD</td> <td></td> </tr> </table>	DRAWN	STATUS	RD	NOT FOR CONSTRUCTION	DESIGN	APPROVED TROY SCHULTZ RPEQ 20631	RD		<p>ENQUIRIES@PEAKURBAN.COM.AU</p>	<p>SCALE</p> <p>1:500 10 5 0 10 20 A1</p> <p>1:1000</p>	<p>CLIENT</p> <p>KOPLICK DEVELOPMENTS PTY LTD</p> <p>ASSOCIATED CONSULTANT GOODROCK PROPERTY PH: 0423 557 882</p>	<p>PROJECT NAME</p> <p>PROPOSED RESIDENTIAL SUBDIVISION (STAGES 1 AND 2)</p> <p>87 - 93 KOPLICK ROAD PARK RIDGE</p>	<p>DRAWING TITLE</p> <p>SEWERAGE RETICULATION EXTERNAL WORKS LAYOUT PLAN SHEET 3</p> <p>PROJECT No. 18-0114 DRAWING No. 602 REVISION 2</p>
REV	DATE	DESIGN	DRAWN	REVISION DETAILS																									
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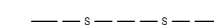
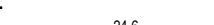
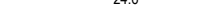
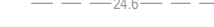
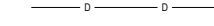






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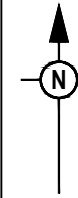
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LEGEND

-  PROPOSED SEWERAGE MAIN
-  EXISTING SEWERAGE MAIN
-  PROPOSED SURFACE CONTOUR
-  EXISTING SURFACE CONTOUR
-  PROPOSED STORMWATER DRAINAGE PIPE
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-  EXISTING GAS MAINS

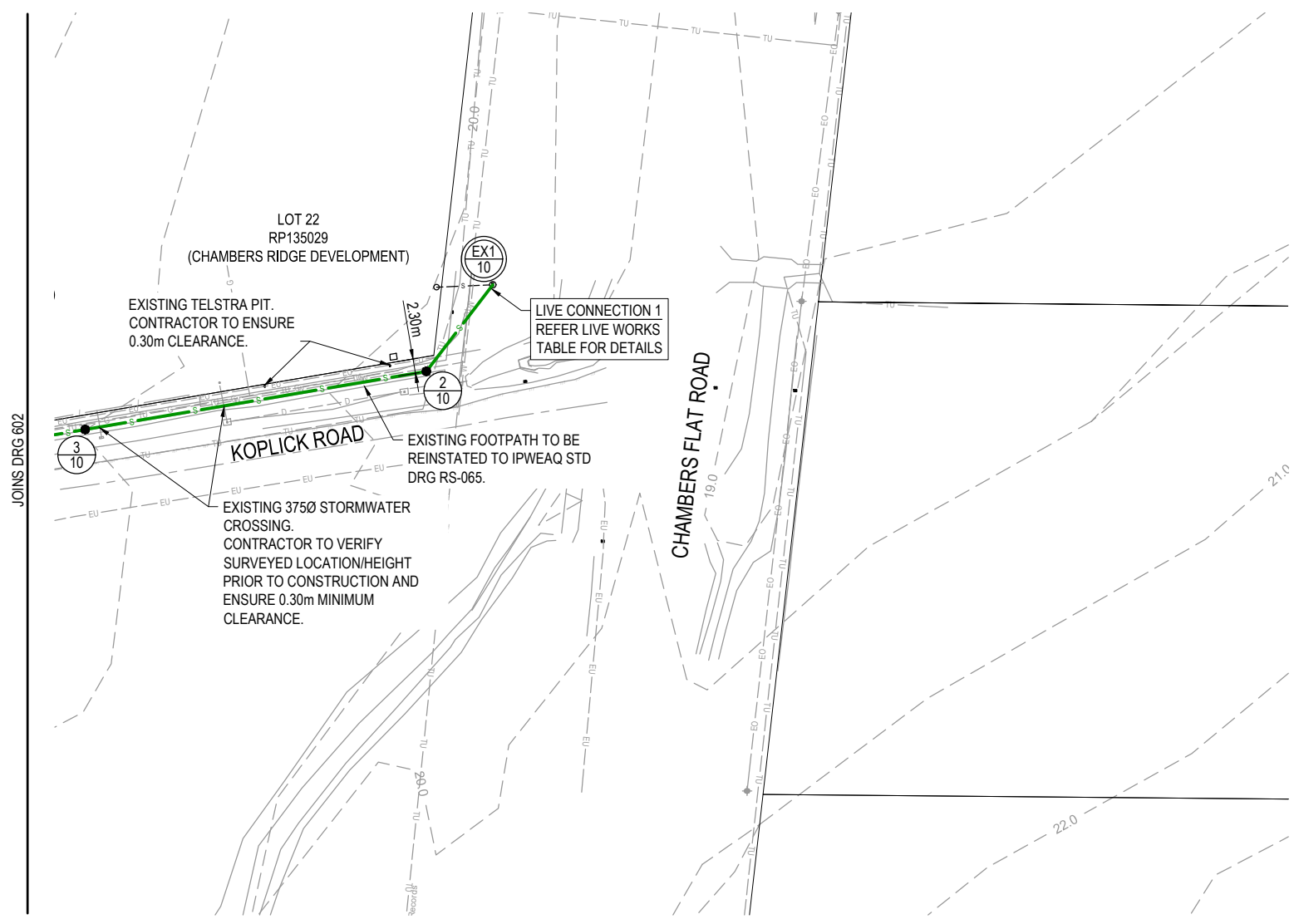


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APPROVED PLAN OF DEVELOPMENT

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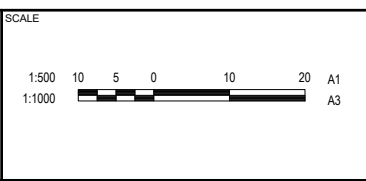


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87 - 93 KOPLICK ROAD
PARK RIDGE

DRAWING TITLE		
SEWERAGE RETICULATION EXTERNAL WORKS LAYOUT PLAN SHEET 4		
PROJECT No.	DRAWING No.	REVISION
18-0114	603	2

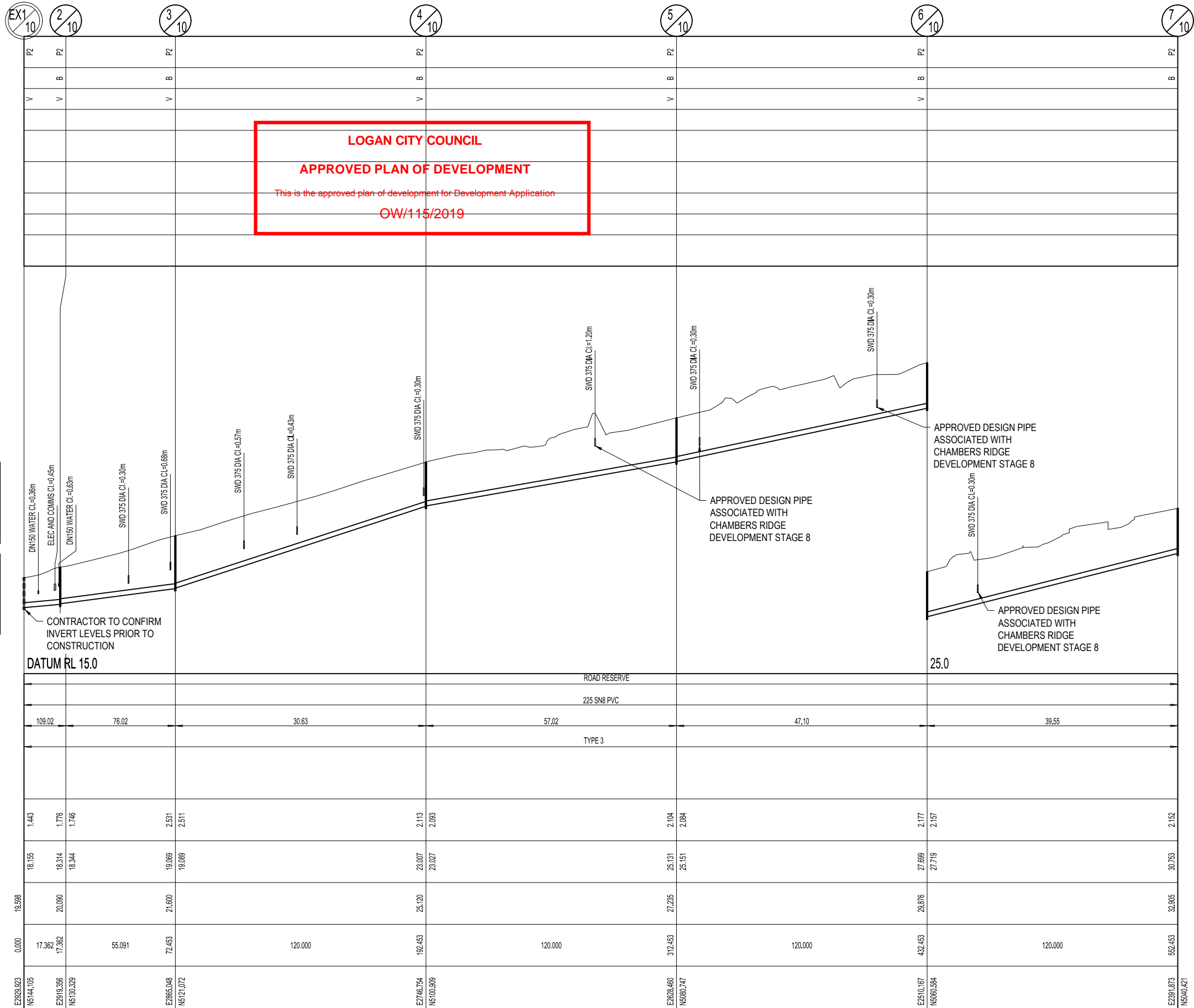
STRUCTURE / BEND / END NAME
STRUCTURE TYPE
STRUCTURE LID TYPE
STRUCTURE DROP TYPE
JUNCTION LINE
DEPTH TO HC
HC INVERT LEVEL
HC TYPE
HC LOT No
CH. FROM D/S STRUC / BEND

STRUCTURE TYPES
 MS = TYPE 'J1' MAINTENANCE SHAFT
 P2 = CONCRETE DN1050
MS DROP TYPES:
 MS-A = 20mm DROP THROUGH BULB
 MS-B = >750mm DROP INTO RISER
LID TYPES
 B = NON-TRAFFICABLE
 D = TRAFFICABLE
 D(BD) = TRAFFICABLE WITH BOLT DOWN

EMBEDMENT NOTE:
 EMBEDMENT TYPE IS PRELIMINARY ONLY AND IS TO BE CONFIRMED AFTER GEOTECHNICAL INVESTIGATION AND ADJUSTED IF NECESSARY IN ACCORDANCE WITH SEQ STD DRGS SEQ-SEW-1201-1 TO 1205-1

*** STORMWATER BRIDGING NOTE:**
 WHERE A STORMWATER PIPE >= 600mm DIA CROSSES OVER A SEWER, THE STORMWATER PIPE SHALL BE SUPPORTED BY A BRIDGE STRUCTURE THAT SPANS THE SEWER TRENCH. REFER DETAIL ON PEAK URBAN STD DRG S-100.

LAND USE
DIAMETER
GRADE
EMBEDMENT
JUNCTION INVERT LEVEL
DEPTH TO INVERT
SEWER INVERT LEVEL
DESIGN SURFACE LEVEL
RUNNING CHAINAGE
SETOUT



LINE

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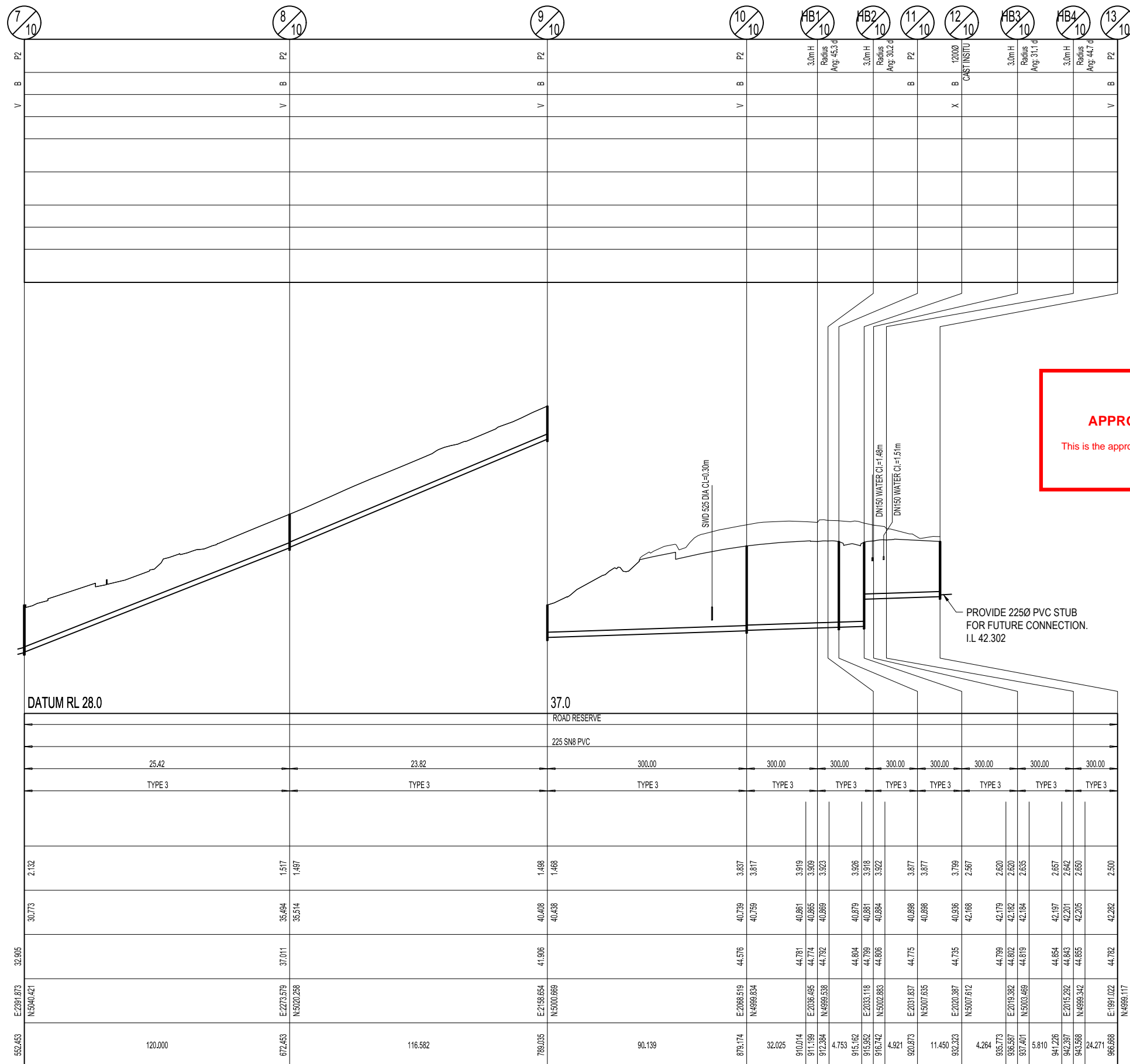
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LAND USE
DIAMETER
GRADE
EMBEDMENT
JUNCTION INVERT LEVEL
DEPTH TO INVERT
SEWER INVERT LEVEL
DESIGN SURFACE LEVEL
SETOUT
RUNNING CHAINAGE



LOGAN CITY COUNCIL
APPROVED PLAN OF DEVELOPMENT
This is the approved plan of development for Development Application
OW/115/2019

LINE

10

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